J-Tech Digital JTDAUDIOSW4x1

User Manual

J-Tech Digital Optical SPDIF/Coaxial Digital to RCA L/R Analog Audio Converter

Model: JTDAUDIOSW4x1
Brand: J-Tech Digital

1. Product Overview

1.1 Description

The J-Tech Digital JTDAUDIOSW4x1 is a versatile audio converter and switch designed to integrate various digital audio sources with analog audio systems. This device features four audio inputs: two optical audio (TOSLINK) and two coaxial audio inputs. It provides multiple outputs including one optical audio (TOSLINK) output, one analog stereo RCA L/R audio output, and one 3.5mm headphone output.

The unit supports conversion from coaxial audio to TOSLINK audio. The RCA L/R and 3.5mm analog audio outputs are capable of handling incoming digital stereo audio formats up to 192KHz. It is important to note that this device functions as an audio converter and switch, not an audio decoder. It cannot decode and convert multi-channel surround sound formats (such as Dolby Digital 5.1CH/AC3) to stereo. For such functionality, a dedicated audio decoder would be required.

1.2 Key Features

- **Input Versatility:** Equipped with 4 SPDIF audio inputs, including two TOSLINK and two Coaxial ports.
- **Multiple Outputs:** Offers 3 distinct outputs: one Optical/TOSLINK, one L/R Stereo, and one 3.5mm Headphone jack.
- **Audio Format Support:** Supports digital audio formats such as Dolby Digital (AC3), DTS, HDCD, and LPCM for SPDIF output. It also supports LPCM digital audio for analog audio output.
- **Built-in DAC:** Features a built-in Digital-to-Analog Converter (DAC) that supports stereo audio formats up to 192KHz. For analog audio output, the incoming SPDIF audio must be in Mono or Stereo format.
- **Coaxial to TOSLINK Conversion:** Capable of converting coaxial audio signals to TOSLINK audio.
- **Automatic Signal Identification:** Automatically identifies the input digital audio signal format. Analog output will mute if a non-LPCM input is detected.
- **Durable Construction:** Housed in a reliable metal case for enhanced durability.
- **Intuitive Control:** Features a dual-functional button for both Power On/Off and Input Switching.

1.3 Package Contents

Please verify that all items are present in the package:

- 1x JTDAUDIOSW4x1 Audio Converter/Switch Unit
- 1x AC Power Adapter
- 1x User Manual

Image: The JTDAUDIOSW4x1 unit shown alongside its AC power adapter and the included user manual.

2. SETUP GUIDE

2.1 Device Layout

Image: Top view of the JTDAUDIOSW4x1 unit, highlighting the four digital audio input ports (two optical, two coaxial) and the input switch button.

Image: Front and back views of the JTDAUDIOSW4x1, illustrating all input and output ports, including power, analog RCA, 3.5mm headphone, and optical output.
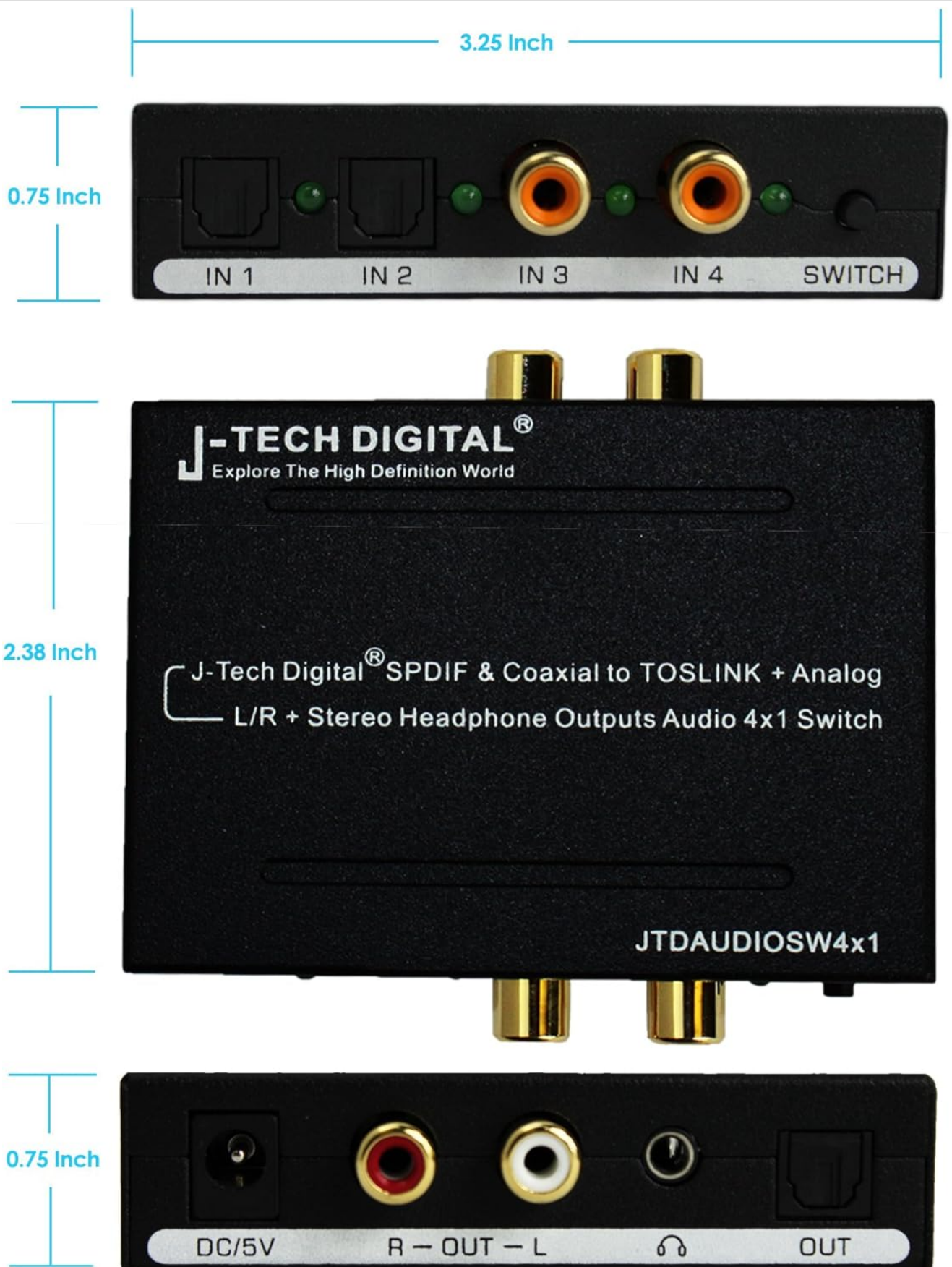
2.2 Dimensions

Image: Dimensional drawing of the JTDAUDIOSW4x1, indicating its compact size for easy placement.

2.3 Connecting Your Device

1. Connect your digital audio source devices (e.g., DVD player, Blu-Ray player, game console) to the input ports (IN 1, IN 2 for Optical; IN 3, IN 4 for Coaxial) on the JTDAUDIOSW4x1.
2. Connect your audio output devices to the corresponding output ports:

- For digital audio output, connect an optical cable from the 'OUT' port on the JTDAUDIOSW4x1 to your receiver or soundbar.
- For analog stereo audio, connect RCA L/R cables from the 'R-OUT-L' ports to your multimedia speakers or analog power amplifier.
- For headphone listening, plug your 3.5mm headphones into the dedicated headphone jack.

3. Connect the provided AC Power Adapter to the 'DC/5V' input port on the JTDAUDIOSW4x1, then plug the adapter into a standard electrical outlet.

Image: A visual guide demonstrating typical connection scenarios for the JTDAUDIOSW4x1 with various audio sources and output devices.

3. OPERATING INSTRUCTIONS

3.1 Power On/Off

The JTDAUDIOSW4x1 features a single multi-functional button on the front panel. To power on the device, press and

hold this button until the indicator lights illuminate. To power off, press and hold the same button until the lights turn off.

3.2 Input Switching

Once the device is powered on, short press the multi-functional button to cycle through the available input sources (IN 1, IN 2, IN 3, IN 4). An indicator light next to each input port will show which input is currently active.

3.3 Audio Output Selection

The device simultaneously outputs audio to all connected output ports (Optical, RCA L/R, and 3.5mm Headphone) based on the selected input. Ensure your connected audio devices (speakers, headphones, amplifier) are powered on and set to the correct input to receive the audio signal.

4. MAINTENANCE

4.1 Cleaning and Care

- Ensure the device is powered off and unplugged before cleaning.
- Use a soft, dry cloth to wipe the exterior of the unit.
- Avoid using harsh chemicals, cleaning solvents, or abrasive materials, as these may damage the finish.
- Keep the device in a cool, dry place, away from direct sunlight, heat sources, and excessive moisture.
- Do not block ventilation openings, if any, to prevent overheating.

5. TROUBLESHOOTING

If you encounter issues with your JTDAUDIOSW4x1, please refer to the following table for common problems and their solutions.

Problem	Possible Cause	Solution
No audio output	Incorrect input selected; Loose cable connections; Device not powered on; Source device not outputting audio; Analog output muted due to non-LPCM input.	Ensure the correct input is selected on the JTDAUDIOSW4x1. Check all cable connections (optical, coaxial, RCA, 3.5mm) are secure. Verify the device is powered on. Confirm your source device is outputting audio. Ensure the digital audio input is LPCM for analog outputs.
Poor audio quality	Damaged cables; Incorrect audio format from source; Interference.	Replace cables if damaged. Ensure the source audio format is compatible. Keep the device away from other electronic equipment that may cause interference.
Device not responding	Power issue; Device malfunction.	Check power adapter connection and wall outlet. Try unplugging and re-plugging the power adapter. If the issue persists, contact customer support.
Analog output (RCA/3.5mm) not working, but Optical output is fine	Input audio format is not LPCM (e.g., Dolby Digital, DTS).	The analog outputs only support LPCM stereo audio. Ensure your source device is set to output LPCM (PCM) stereo audio. This device does not decode multi-channel formats to stereo.

If the problem persists after attempting these solutions, please contact J-Tech Digital customer support for further assistance.
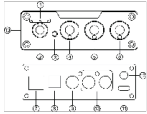
6. Technical Specifications

Specification	Detail
Brand	J-Tech Digital
Model Number	JTDAUDIOSW4x1
Mounting Type	Wall Mount
Interface Type	Coaxial, Optical (TOSLINK)
Number of Channels	5 (for SPDIF output compatibility, analog is stereo)
Material	Metal
Product Dimensions	6.5 x 4.5 x 2 inches
Item Weight	9.6 ounces
Supported Digital Audio Formats	Dolby Digital (AC3), DTS, HDCD, LPCM (for SPDIF output)
Supported Analog Audio Formats	LPCM Stereo (up to 192KHz)
Power Supply	AC Power Adapter (DC/5V)

7. Warranty and Support

J-Tech Digital is committed to providing high-quality products and excellent customer service.

- **Manufacturer Warranty:** This product comes with a 1-Year Manufacturer Warranty from J-Tech Digital, covering defects in materials and workmanship under normal use.
- **Technical Support:** Enjoy free lifetime technical support directly from the manufacturer. Our knowledgeable team is available to assist you with any questions or issues you may encounter during the setup or operation of your device.

For warranty claims or technical assistance, please visit the official J-Tech Digital website or contact their customer support line. Refer to the contact information provided on the product packaging or the J-Tech Digital website for the most current support details.

Related Documents - JTDAUDIOSW4x1

	[PROZOR PST054c 192KHz DAC User Manual: Digital to Analog Audio Converter with Volume Control](#) This user manual details the PROZOR PST054c 192KHz DAC, a digital to analog audio converter with volume control. It covers product specifications, interface descriptions, connection and operation, package contents, frequently asked questions, and warranty information for converting digital audio signals to analog.
	[OREI DA21 Digital to Analog Audio Converter User Manual](#) User manual for the OREI DA21 Digital to Analog Audio Converter. Learn about its features, specifications, package contents, panel descriptions, and connection/operation instructions for converting digital audio to analog.
	[PROZOR 4-Port Digital to Analog Converter Amplifier with Remote Control User Manual](#) User manual and specifications for the PROZOR 4-Port Digital to Analog Converter Amplifier, featuring multiple digital inputs (Toslink, Coaxial), analog outputs (RCA, AUX), and remote control operation. Includes detailed panel descriptions, connection diagrams, operation steps, and usage notes.
	[Fosi Audio DAC-Q4 User Manual: Setup, Specifications, and Troubleshooting Guide](#) Get detailed information on the Fosi Audio DAC-Q4, including product specifications, step-by-step setup instructions for PC and other devices, comprehensive troubleshooting tips, and a comparison with other Fosi Audio models.
	[Nobsound Q4 DAC Headphone Amplifier User Manual](#) Comprehensive user manual for the Nobsound Q4 DAC Headphone Amplifier, covering front/rear panel descriptions, operation steps, remote control functions, PC-USB connectivity, specifications, FAQs, and warnings.
	[PROZOR PST158a 192kHz 5.1CH DAC Converter User Manual and Guide](#) Comprehensive guide for the PROZOR PST158a 192kHz 5.1CH Digital to Analog Audio Converter, covering package contents, setup, operation, troubleshooting, and specifications.