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LiNKFOR ULK048-US

LiNKFOR 192kHz Digital to Analog Audio Converter (DAC)

Model: ULK048-US**Brand:** LiNKFOR

1. INTRODUCTION

The LiNKFOR 192kHz Digital to Analog Audio Converter (DAC) is designed to convert digital optical (Toslink) or SPDIF audio signals into analog stereo RCA L/R audio. This device allows you to connect modern digital audio sources, such as HDTVs, Blu-ray players, DVD players, and game consoles, to older analog audio systems or amplifiers that only accept RCA inputs. It features a built-in audio amplifier chip for clear sound and supports high sampling rates for optimal audio quality.

2. PACKAGE CONTENTS

- 1 x LiNKFOR 192kHz DAC Converter (Model: ULK048-US)
- 1 x Optical Cable
- 1 x USB Power Cable
- 1 x User Manual

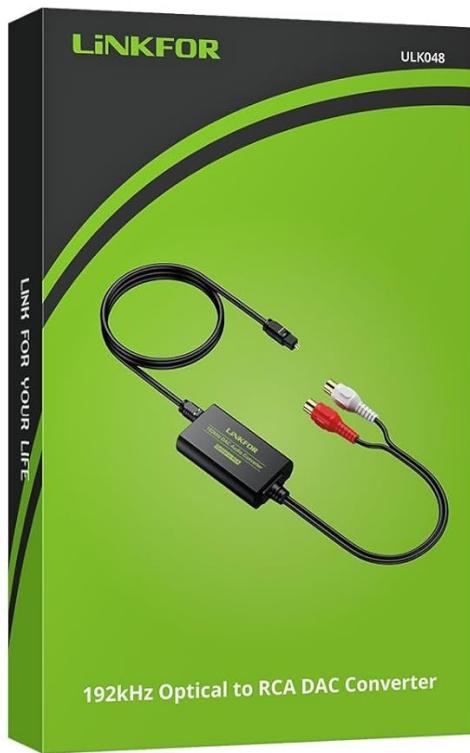


Figure 2.1: Package Contents. The image displays the LiNKFOR 192kHz Optical to RCA DAC Converter, an optical cable, a USB power cable, and the user manual, all neatly arranged in their packaging.

3. PRODUCT OVERVIEW

The LiNKFOR DAC Converter is designed for straightforward connectivity. Below are the key components and their functions:

- **Optical Input:** Connects to your digital audio source (e.g., TV, Blu-ray player) using the provided optical Toslink cable.
- **RCA L/R Output:** Connects to your analog audio system (e.g., amplifier, speakers) using the integrated RCA L/R cables.
- **DC 5V Power Input:** Connects to a 5V 1A USB power source using the provided USB power cable.

3.9ft/1.2m Stable Transmission

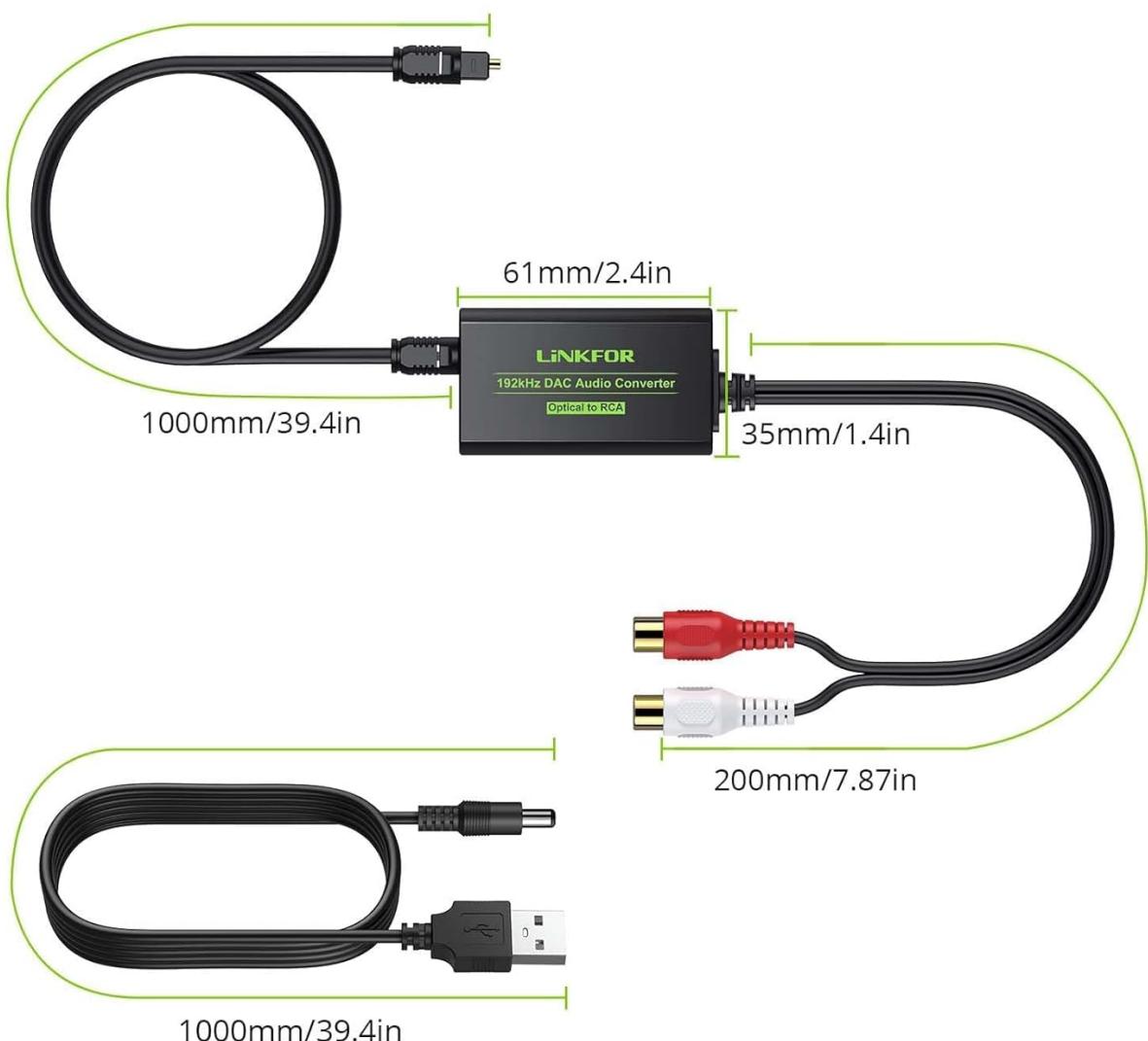


Figure 3.1: Product Dimensions and Connections. This diagram shows the physical dimensions of the converter unit and the lengths of its integrated optical and RCA cables, indicating the input and output connections.

4. SETUP INSTRUCTIONS

Follow these steps to set up your LiNKFOR DAC Converter:

- Connect Optical Cable:** Insert one end of the optical Toslink cable into the digital optical output port of your audio source (e.g., HDTV, TV Box, Blu-ray DVD, Game Console). Connect the other end to the Optical Input port on the LiNKFOR DAC Converter.
- Connect RCA Cables:** The converter has integrated RCA L/R cables. Connect the red RCA plug to the right audio input (R) and the white RCA plug to the left audio input (L) on your analog audio system (e.g., amplifier, stereo speakers).
- Connect USB Power:** Plug the USB power cable into the DC 5V Power Input port on the converter. Connect the other end of the USB cable to a 5V 1A USB power adapter (not included) or a USB port on your TV/device.
- Configure Audio Source:** It is crucial to set the audio output format of your source device (TV, etc.) to **PCM** or **LPCM**. The converter is not compatible with 5.1 channel signals such as Dolby AC3 or DTS. Refer to your source

device's manual for specific audio output settings. Typically, this is found under Sound Settings > Digital Sound Out > PCM.



Figure 4.1: Connection Diagram. This diagram illustrates how to connect various digital audio sources (HDTV, TV Box, Blu-ray DVD, Game Console) to the LiNKFOR DAC Converter via an optical cable, and then connect the converter to a stereo audio system using RCA L/R outputs. A reminder to set the audio output mode to PCM or LPCM is included.



Support Sampling Rate at 32, 44.1, 48, 96 and 192kHz

Figure 4.2: TV Audio Output Settings. This image displays a typical TV sound menu, guiding the user to select 'Optical' for Sound Out and then 'PCM' for Digital Sound Out to ensure proper audio conversion.

5. OPERATING INSTRUCTIONS

Once all connections are made and your audio source is configured to PCM/LPCM output, the LiNKFOR DAC Converter operates automatically. It is a plug-and-play device that will convert the digital audio signal to analog, allowing your analog audio system to play the sound.

6. FEATURES

- **Digital to Analog Conversion:** Converts Optical Toslink Digital Audio Signals to Analog RCA L/R Audio.
- **Built-in Audio Amplifier Chip:** Professional audio amplifier chip amplifies the RCA output level, producing pure and clear sound.
- **High Sampling Rate:** Supports sampling rates at 32, 44.1, 48, 96, and 192 kHz, with 24-bit SPDIF incoming bit stream on left and right channels.
- **Compact and Convenient:** Features a built-in 1.1m/3.6ft RCA cable for easy connection and installation without

occupying excessive space.

- **Plug and Play:** Simple to use with HDTVs, set-top boxes, DVD/Blu-Ray players, and game consoles. Powered by a 5V 1A USB cable.
- **Note:** Not compatible with 5.1 Channel Signal such as Dolby AC3, DTS.

Built-in Professional Audio Amplifier Chip

The professional audio amplifier chip can amplify the RCA output level and makes the sound pure and clear.



Figure 6.1: Internal Amplifier Chip. This image provides a detailed view of the converter's internal circuitry, emphasizing the professional audio amplifier chip and its support for 192kHz 24-bit audio sampling rate.

7. SPECIFICATIONS

Specification	Value
Model Number	ULK048-US
Input Audio	Optical (Toslink) / SPDIF
Output Audio	RCA L/R Stereo Audio
Sampling Rate Support	32, 44.1, 48, 96, 192 kHz

Bit Stream	24-bit SPDIF (Left and Right Channels)
Power Supply	DC 5V 1A (via USB cable)
Material	ABS
Item Weight	110 g
Parcel Dimensions	18.9 x 12.1 x 1.9 cm
Included Components	Optical Cable
Audio Channels	2

8. TROUBLESHOOTING

- **No Sound Output:**

- Ensure all cables (optical, RCA, USB power) are securely connected.
- Verify the USB power cable is connected to a working 5V 1A power source.
- Check your source device's audio output settings. It **must** be set to PCM or LPCM. The converter does not support Dolby AC3 or DTS.
- Confirm your analog audio system (amplifier/speakers) is powered on and set to the correct input channel.

- **Distorted Sound:**

- Ensure the optical cable is not bent or damaged, as this can affect signal quality.
- Check the volume levels on both your source device and your analog audio system.
- Confirm the audio output format is correctly set to PCM/LPCM on your source device.

- **Intermittent Sound:**

- Check for loose connections.
- Ensure the USB power supply is stable.

9. SAFETY INFORMATION

- Do not expose this device to water, moisture, or excessive humidity.
- Avoid placing the device near heat sources or in direct sunlight.
- Use only the specified 5V 1A USB power supply.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Keep out of reach of children.

10. OFFICIAL PRODUCT VIDEOS

Video 1: Neoteck 6ft/1.8m Optical to RCA Cable. This video demonstrates the connection process of an optical cable to an RCA output, showcasing the ease of setup for a digital to analog audio converter. It highlights the physical connections and basic functionality.

Video 2: PROZOR 192KHz Digital to Analog Converter. This video provides a visual guide on how to connect and use a 192KHz

Digital to Analog Converter, demonstrating its application in a home audio setup. It covers the essential steps for achieving audio output from digital sources.

Video 3: PROZOR 192KHz DAC Converter Setup & Product

Showcase. This video offers a comprehensive setup guide and product showcase for the 192KHz DAC Converter, detailing its features and demonstrating its functionality in a practical environment.

11. WARRANTY AND SUPPORT

LiNKFOR products are designed for reliability and performance. For warranty information, technical support, or customer service inquiries, please refer to the contact information provided in the product packaging or visit the official LiNKFOR website. Please retain your proof of purchase for warranty claims.