

# User's Manual

## Digital to Analogue Audio Converter



# KanaaN

**Thank you for purchasing the converter from KanaaN.**

We hold several brands to produce and distribute our products: **LEICKE** (power adapters, batteries), **KanaaN** (adapters/converters, charging cables etc.), **Sharon** (iPad cases with keyboard, fans etc.), **Hebron** (protective cases, docking stations, screen protectors etc.), **Manna** (notebook cases).

We continuously work on the further development of our products, our customer support and innovations. Our products have a long service life, are eco-friendly and high performing. Furthermore, every day we do our very best to satisfy you as our customer. That is why you, no matter if private or business customer, are in the focus of our company's efforts. We take your reviews and proposals seriously and evaluate them continuously. That way, we get to know you and your demands on our products and services better and thus allow for positive enhancements.

To discover more about LEICKE products, or if you have any questions about this product, visit our website [www.leicke.com](http://www.leicke.com) (production & wholesale) or [www.leicke-distributor.de](http://www.leicke-distributor.de) (distribution) and feel free to contact us.

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Dear customer,

*this Digital to Analogue Audio Converter from our brand KanaaN is specially designed for either home or professional audio signal switching. It converts Coaxial or Toslink digital audio signals into analogue L/R audio signals and allows you to connect it to an external device such as an amplifier via standard Cinch connector. The speciality of the KanaaN Digital to Analogue Converter is the additional 3.5 mm jack interface. This converter is small in size and quite easy to install.*

*For optimum performance, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for further reference.*

*Your LEICKE Team!*

## PACKAGE CONTENTS

Before attempting to use this device, please check the packaging and make sure the following items are contained in the package:

| Name                                | Number of Pieces | Note                                  |
|-------------------------------------|------------------|---------------------------------------|
| Digital to Analogue Audio Converter | 1                | -                                     |
| 5V DC power supply                  | 1                | plug type dependent on target country |
| User's Manual                       | 1                | -                                     |

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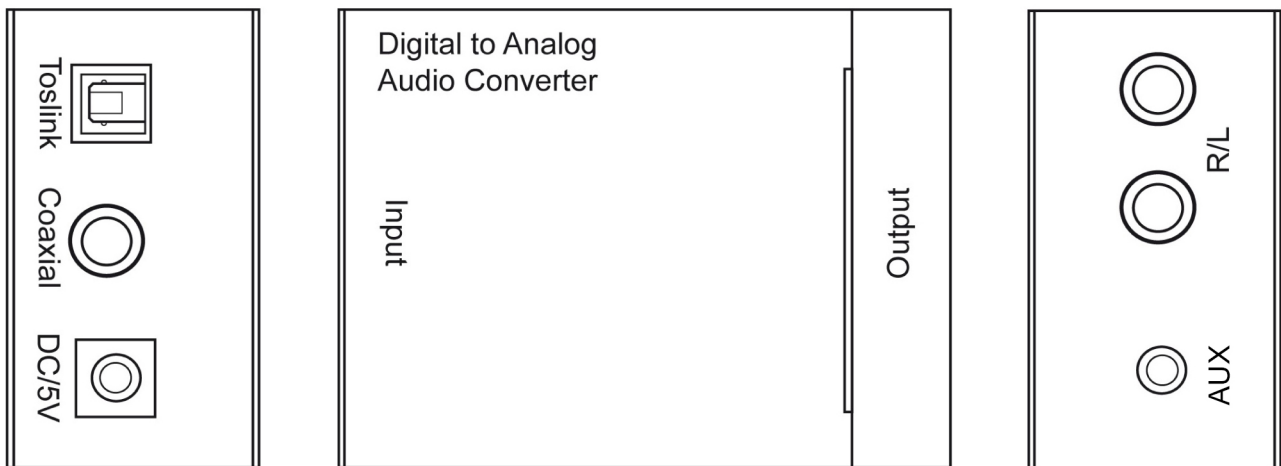
## TECHNICAL DETAILS

| <b>Signal Input/Output</b>          |                                  |
|-------------------------------------|----------------------------------|
| Input Audio                         | Coaxial or Toslink digital audio |
| Output Audio                        | L/R audio                        |
| <b>Connectors</b>                   |                                  |
| Input Audio Plug                    | Toslink, 1 x Cinch (Coaxial)     |
| Output Audio Plug                   | 2 x Cinch (R/L), 3.5 mm jack     |
| Sampling Rate                       | 32, 44.1, 48 and 96 KHz          |
| Bit Rate                            | 24 resolution                    |
| <b>Size and Weight</b>              |                                  |
| Size (LxWxH)                        | 51 x 41 x 26 mm                  |
| Weight (net)                        | 78 g                             |
| <b>Environmental Specifications</b> |                                  |
| Operating Temperature               | 0°C to +70°C                     |
| Operating Humidity                  | 10% to 85% RH (no condensation)  |
| Storage Temperature                 | -10°C to +80°C                   |
| Storage Humidity                    | 5% to 90% RH (no condensation)   |
| <b>Power Requirements</b>           |                                  |
| External Power Supply               | 5 V DC, 2 A                      |
| Power Consumption                   | Max. 0.5 W                       |
| <b>Regulatory Approvals</b>         |                                  |
| Converter Unit                      | UL, CE, FCC                      |
| Power Adapter                       | UL, CE, FCC                      |

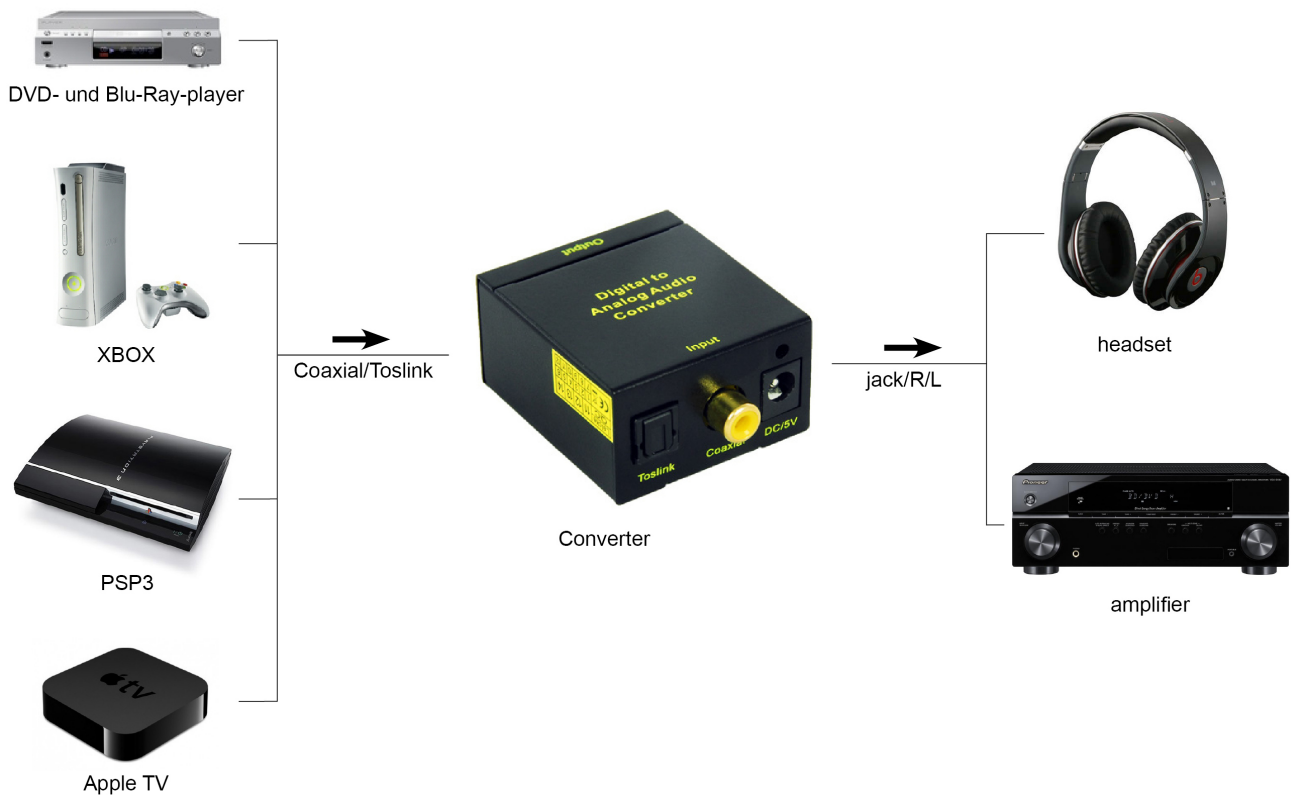
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## PANEL DESCRIPTION

Please study the panel drawings below and become familiar with the signal input(s), output(s) and power connector.



## CONNECTION DIAGRAM



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## CONNECTION AND OPERATION

**Attention: Insert/Extract cable gently.**

- Step 1:** Before installation, please make sure all devices you wish to connect have been turned off.
- Step 2:** Connect the audio source device (DVD player or other) to the converter using the appropriate Toslink or Coaxial cables. Then connect an appropriate amplifier to the analogue output interface via Cinch connector or 3.5 mm jack.
- Step 3:** Connect the A/V receivers or amplifiers to the converter using an appropriate R/L cable.
- Step 4:** Connect converter via power supply into the wall outlet. Now the amplifier may be switched on.

### Notes:

- *To output a digital audio signal the playback device might be set to "digital audio". You may find such instructions in the producers user's manual.*
- *If the converter is connected to a Toslink and a Coaxial cable simultaneously, the Toslink signal will be prioritised.*

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## FAQ

In general, in case of technical troubles check the electrical and optical signal connections and the power supply (LED at converter glows) first. If this turns out to be not helpful, we arranged the following questions and answers for you to find the cause and solve the problem.

| <b>Problem Description</b>               | <b>Possible Cause/Possible Solution</b>  |
|--|--|
| <b>No or just very low audio output.</b> | <ul style="list-style-type: none"><li>• Is the volume correctly adjusted at the playback device?</li><li>• Is the signal source set on digital audio?</li><li>• Is the amplifier set on the right input interface?</li><li>• Is the proper digital output format (PCM Audio, Stereo) used? For the use of the converter with Dolby Surround playback devices the Stereo output format has to be adjusted. Otherwise, low or no audio may be output, due to different transmission protocols.</li><li>• Is the signal cable too long?</li></ul> |
| <b>There is a supply noise</b>           | <ul style="list-style-type: none"><li>• Do the cables have a proper distance to transformers or similar devices?</li><li>• Are converter and amplifier and converter connected to different circuits (ground loop)?</li><li>• If you use the Cinch input on the digital side, ground loops may occur, especially with source devices using a switching power supply like notebooks. Is the supply noise still there if the Notebook runs on battery operation?</li></ul>   |
| <b>The signal is distorted</b>           | <ul style="list-style-type: none"><li>• Is the proper output format (PCM Audio) used?</li><li>• Is the correct amplifier input used? Some sound systems have input interfaces for record players, which are more sensible and not suitable due to possibly occurring distortions.</li><li>• Is the volume at the playback device set too high?</li></ul>   |

**If the problems cannot be solved, please don't hesitate to contact us.**

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## SAFETY NOTES

For your own safety and for long enjoyment of our product, please follow the following safety instructions:

- To avoid damages to the sound system by inrush current, please switch the amplifier off before installing the converter. Non-compliance may cause damages to power amplifier, sound system and your hearing! The amplifier is to be switched on last, after signal source and converter are already switched on.
- Please keep power adapter and converter dry and just use in dry environment.
- If the converter does not work normally, please disconnect the power adapter from the circuit and try to find the cause.
- Do not attempt to use the converter with other power adapters. Despite of matching plugs it may still damage the converter, the signal source and the sound system!



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## CONTACT

If you have any questions, please feel free to contact us.

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