

User's Manual

Digital to Analogue Audio Converter Headphone Amplifier



Product number: KN40579, KN40580, KN40581

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 and smartphone cases).

We continuously work on the 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.

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 additional 3.5 mm headphone output is the special feature of our KanaaN Digital to Analogue Converter. The output signal can be regulated with an additional controller. 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:

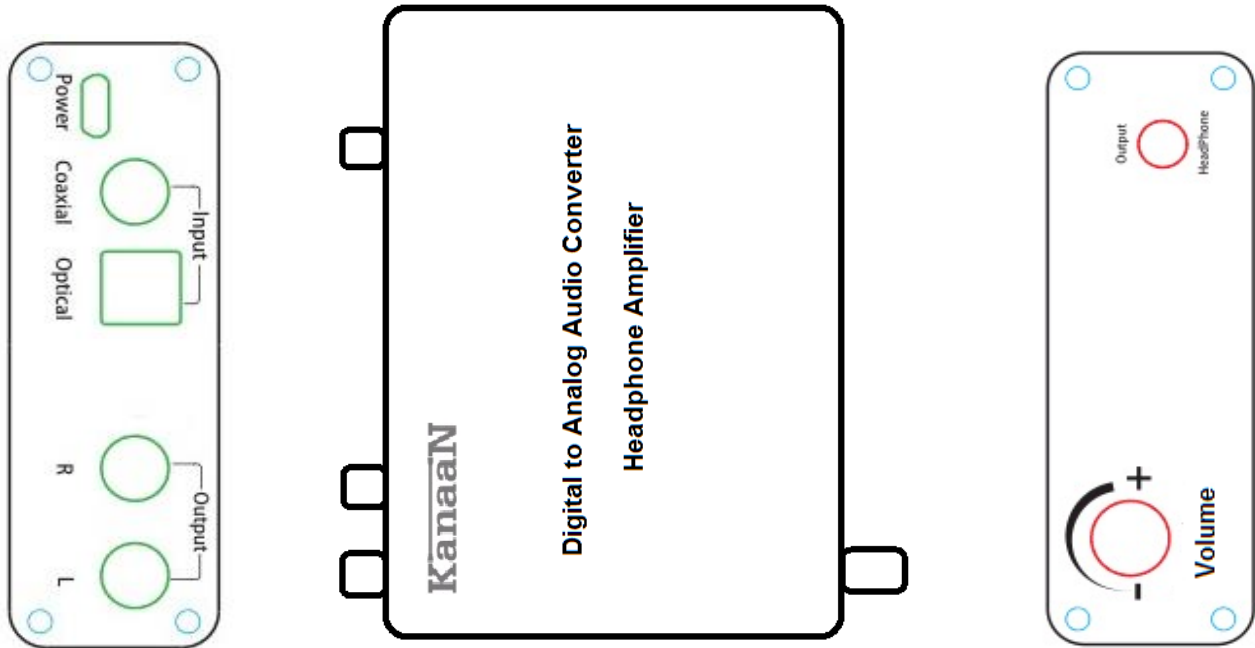
Name	Number of Pieces	Note
Digital to analogue audio converter	1	-
Charger cable	1	USB (type A)
User's Manual	1	-

TECHNICAL DETAILS

Signal Input/Output	
Input	Coaxial or Toslink digital audio
Output	L/R audio + Headphone out (amplified)
Connectors	
Input connector	Toslink, 1 x Cinch (Coaxial)
Output connector	2 x Cinch (R/L), 1 x 3.5 mm PhoneJack
Sampling Rate	32, 44.1, 48, 96 and 192 KHz
Bit Rate	24 resolution
Output Voltage	Max. 500 mV, 3.5 mm PhoneJack
Dimensions	
(L x W x H)	84 x 63 x 28 mm
Weight	140 g
Environmental Specifications	
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)
Power Requirements	
External Power Supply	Via charger cable USB (type A)
Power Consumption	Max. 5 W
Regulatory Approvals	
Converter Unit	UL, CE, RoHS
Power Adapter	UL, CE, FCC

PANEL DESCRIPTION

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



CONNECTION DIAGRAM



CONNECTION AND OPERATION

Attention: Insert/Extract cable gently.

Step 1: Please switch all devices off before connecting the converter.

Step 2: Connect the audio source device (DVD player etc.) via a TOSLINK or coaxial cable to the converter and the analogue output with a cinch or 3.5mm jack with a suitable amplifier.

Step 3: Connect the AV receiver or amplifier with a compatible L/R cable to the converter.

Step 4: In addition, you can use the headphone out to use the audio signal. The headphones need a compatible 3.5mm jack. This signal is pre-amplified in the converter and you can adjust the volume.

Step 5: To activate the headphone out just push the volume controller a few seconds.

Step 6: You may now use the converter. Connect with the charger cable to a USB (type A) port and switch on the source device.

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 coaxial cable simultaneously, the TOSLINK signal will be automatically preferred.

FAQ

In general, in case of technical troubles check the electrical 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.

Problem Description	Possible Cause/Possible Solution
No or just very low audio output.	<ul style="list-style-type: none">• Is the volume correctly adjusted at the playback device?• Is the signal source set on digital audio?• Is the amplifier set on the right input interface?• Is the proper digital output format (PCM Audio, Stereo) used? For the use of the converter with a Dolby Surround device, you need to adjust the stereo out format. Otherwise different transmission protocols may lead to very low or even no audio signal.• Is the signal cable too long? Or even defective?
There is a supply noise	<ul style="list-style-type: none">• Do the cables have a proper distance to transformers or similar devices?• Are converter and amplifier connected to different circuits (ground loop)?• 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?
The signal is distorted	<ul style="list-style-type: none">• Is the right output format PCM (Dolby Digital Audio) used?• 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.• Is the volume at the playback device set too high?

If the problems cannot be solved, please don't hesitate to contact us. Our customer's support will be glad to help you under info@leicke.com.

SAFETY NOTES

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

- Please use device as described in the manual.
- To avoid damages to the video system by inrush current, please switch the amplifier/TV off before installing the converter. Non-compliance may cause damages to TV, amplifier system and your hearing! The amplifier is to be switched on last, after signal source and converter are already switched on.
- If the converter does not work normally, please disconnect the power adapter from the circuit and try to find the cause.
- Use original factory power adapter. Do not attempt to use the converter with other power adapters. Despite of matching plug connectors it may still damage the converter, the signal source and the sound system!
Warning: Power adapters with a higher voltage may damage the converter.
- Do not pull on power cord when taking off the wall socket.
- Turn off power when device is not in use for a longer time.
- Do not open cover and do not touch inner parts.
- Please keep power adapter and converter dry and just use in dry environment.
- Keep away from damp, high temperature, dusty, erosive and oxidative environment.
- Do not touch with wet hands.
- Keep safe from being hit or falling down.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

1. This device may not cause harmful interference, and
2. (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC-Caution: FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

Radiation Exposure Statement:

1. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users should follow the specific instructions in the user's manual to comply with the FCC rules.
2. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

DISPOSAL



This device contains materials that must not be disposed of as household waste. Please check local laws concerning the applicable disposal regulations. Protect the environment by participating in recycling programs!

CONTACT

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

PRODUCTION & WHOLESALE

LEICKE GmbH
Dohnanystr. 28
04103 Leipzig
Germany

Web: www.leicke.com
Mail: info@leicke.com

