DCT-4N

Stereo Analog to Dual Outputs Digital Converter (ADC)

Operation Manual

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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VS1	24/12/12	Updated format/diagrams

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1. INTRODUCTION

The Stereo Analog to Dual Outputs Digital Converter (ADC) is designed to convert analog stereo audio to Coaxial and TOSLINK Optical digital outputs. The digital output is 2 channels uncompressed LPCM with a sampling rate of 48 kHz. Both Optical and Coaxial cables connected to the output ports of the unit can run up to 5 meters while still providing a reliable and lossless audio signal transmission. The unit is both compact and easy to install, which makes it a very handy device, perfect for converting audio signals in the home or workplace.

2. APPLICATIONS

- Convert analog audio to digital to connect to optical or coaxial digital AV receiver input
- Convert and distribute an analog audio signal to 2 digital outputs (1 Coaxial and 1 Optical)

3. PACKAGE CONTENTS

- Stereo Analog to Dual Outputs Digital Converter (ADC)
- 5V/1.2A DC Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

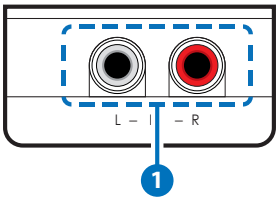
Analog audio source device such as DVD or CD player and audio output device such as an amplifier or AV receiver with digital audio input (Coaxial/Optical).

5. FEATURES

- Supports uncompressed output of 2 channels LPCM digital audio signals
- Supports an output sampling rate of 48 kHz
- Provides electromagnetic-noise-free transmission
- Easy to install and operate

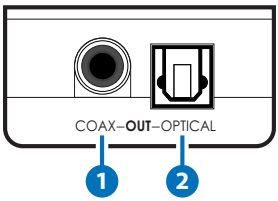
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



1 **L/R IN**: Connect this input to the stereo output of an audio streamer, AV receiver, LCD TV, or DVD player, using stereo RCA cables.

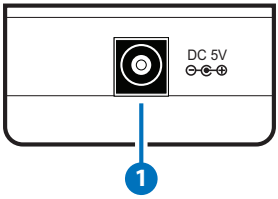
6.2 Rear Panel



1 **COAX OUT:** Connect this output to the Coaxial input of an audio equipment such as an amplifier or A/V receiver, using a compatible cable.

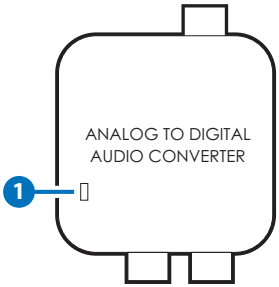
1 **OPTICAL OUT:** Connect this output to the Optical input of an audio equipment such as an amplifier or A/V receiver, using a compatible cable.

6.3 Left Panel



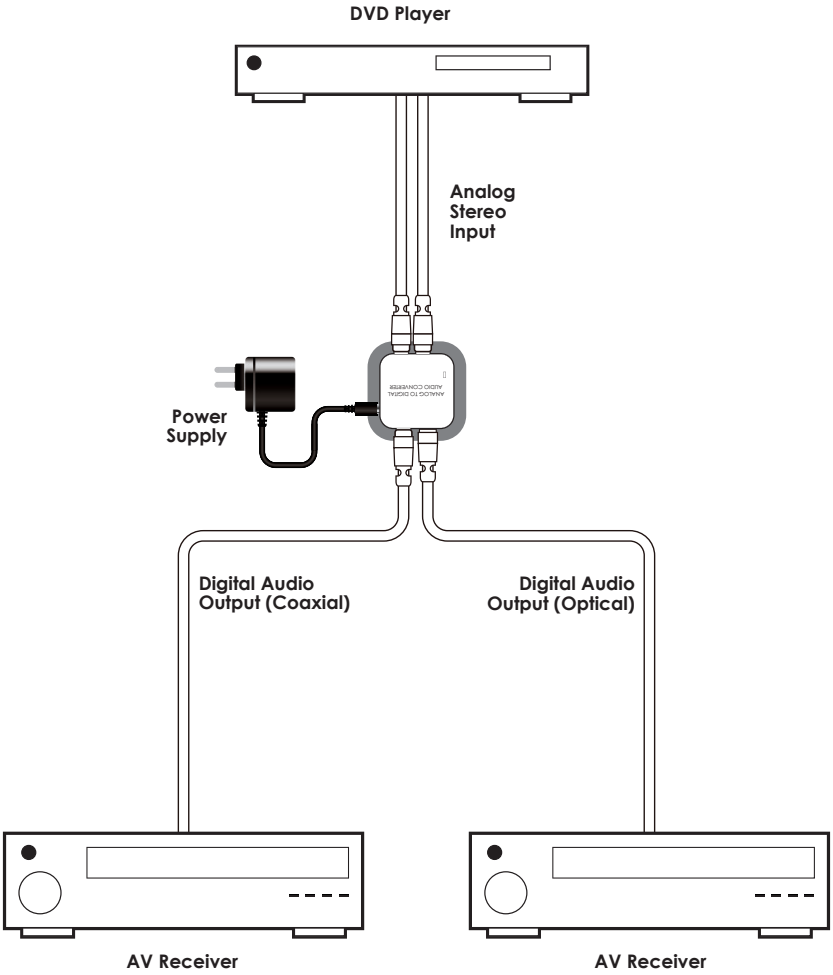
1 **DC 5V:** Plug 5V DC power supply into the unit and connect the adaptor to AC wall outlet.

6.4 Top Panel



1 **POWER LED:** The LED will illuminate when the power is connected.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Input Ports	1×Analog Stereo (RCA connectors)
Input Format	Analog Stereo 2 CH
Output Format	LPCM 2 CH
Output Sample Frequency	48 kHz
Output Ports	1×Coaxial 1×Optical (TOSLINK connector)
Output SNR	>90 dB
Output THD+N	< 0.01 % at 1 kHz
Output Frequency Response	< ±0.5 dB 20 Hz–20 kHz
Output Crosstalk	< −85 dB
Power Supply	5V/1.2A DC (US/EU standards, CE/FCC/ UL certified)
Dimensions	57 mm (W)×45.5 mm (D)×23.5 mm (H)
Weight	30 g
Chassis Material	Plastic
Silkscreen Color	White
Operating Temperature	0 °C~ 40 °C
Power Consumption	0.6 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
ADC	Analog to Digital Converter
LPCM	Linear Pulse Code Modulation
RCA	Audio Connector (Radio Corporation of America)
TOSLINK	Toshiba Link

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