NEXIS

# DCO1

## Digital Audio Converter with Dual Outputs




# 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 Digital Audio Converter with Dual Outputs will convert between Coaxial and Optical digital audio formats. This compact and convenient unit accepts a stereo or surround (up to 5.1 channels) audio signal through either Coaxial cable or Optical cable, and passes the unchanged signal to both its Coaxial and Optical output ports. With its built-in signal enhancement feature, the unit also serves as a repeater of digital audio signals to extend up to double the transmission distance.

## 2. APPLICATIONS

- Convert an Optical digital signal to a Coaxial digital signal
- Convert a Coaxial digital signal to an Optical digital signal
- Distribute digital audio to 2 locations
- Extend your Optical or Coaxial cable distances

## 3. PACKAGE CONTENTS

- Digital Audio Converter with Dual Outputs
- 5 V/1.2 A Power Adaptor
- Operation Manual

## 4. SYSTEM REQUIREMENTS

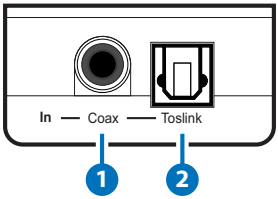
Digital audio source device such as DVD or CD player with Optical or Coaxial cables and audio output device such as an amplifier or AV receiver with Optical or Coaxial digital input.

## 5. FEATURES

- Supports two-way conversion: coaxial to optical or optical to coaxial
- Supports input audio signals from 2 channels to up to 5.1 channels, output signal follows input
- Supports signal enhancement of S/PDIF audio and extends the transmission distance, through coaxial and/or optical cables
- Select one input from coaxial or optical input ports, and send the S/PDIF audio signal to both coaxial and optical output ports simultaneously
- Compact and easy to use

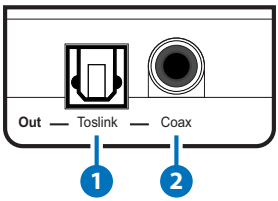
# 6. OPERATION CONTROLS AND FUNCTIONS

## 6.1 Front Panel



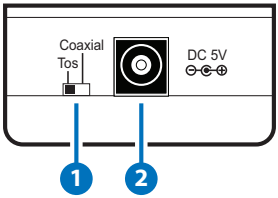

1. **Coaxial In:** Connect to the output of an S/PDIF digital audio source device such as DVD player or set-top box, using Coaxial cable.
2. **Toslink In:** Connect to the output of an S/PDIF digital audio source device such as CD player or Media Streamer, using Optical cable.

## 6.2 Rear Panel




1. **Toslink Out:** Connect to the input of an S/PDIF digital audio equipment such as an amplifier, using Optical cable.
2. **Coaxial Out:** Connect to the input of your S/PDIF digital audio equipment such as an AV Receiver, using Coaxial cable

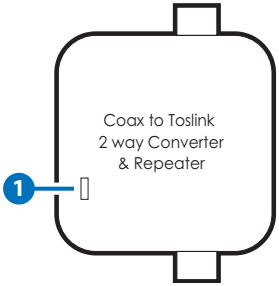
## 6.3 Left Panel




1 **Tos/Coaxial:** Selects the current audio source, either optical or coaxial.

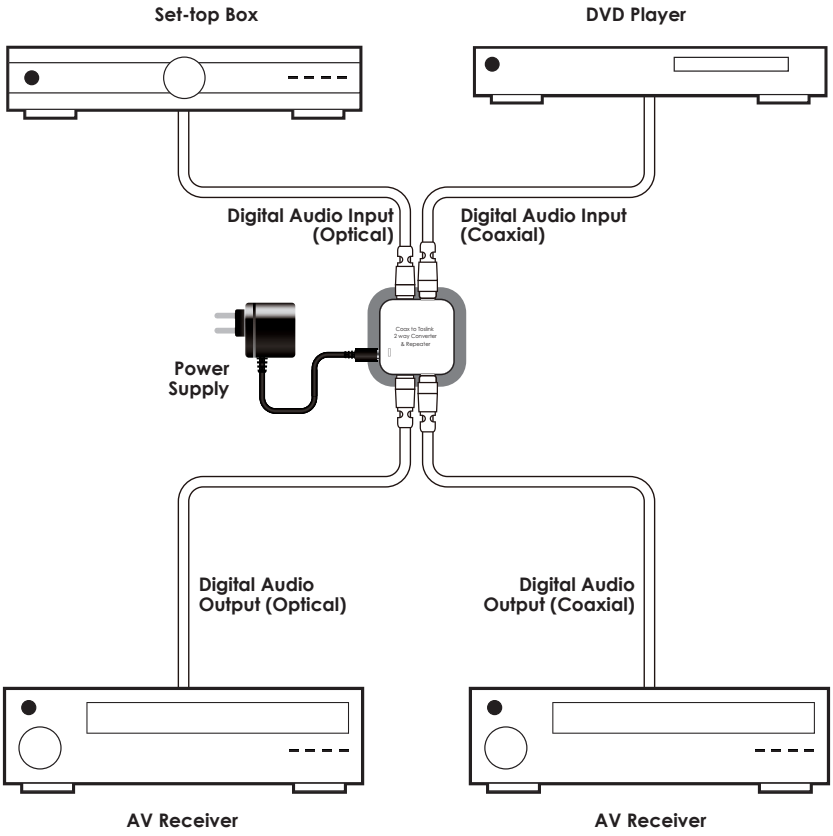
2 **DC 5V:** Connect the 5V DC power supply to the unit and plug the adaptor into an AC wall outlet.

## 6.4 Top Panel




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

# 7. CONNECTION DIAGRAM



## 8. SPECIFICATIONS

| | |
|---|---|
| **Input Ports** | 1×Coaxial (RCA connector)<br>1×Optical Fiber (TOSLINK connector) |
| **Input Format** | LPCM 2 CH, Compressed audio Dolby Digital 2/5.1 CH & DTS 2/5.1 CH |
| **Output Ports** | 1×Coaxial (RCA connector)<br>1×Optical Fiber (TOSLINK connector) |
| **Power Supply** | 5 V/1.2 A switching power adaptor (with universal plug, CE/FCC/UL certified) |
| **Dimensions** | 58 mm (W)×46 mm (D)×24 mm (H) |
| **Weight** | 25 g (Unit only) |
| **Chassis Material** | Plastic |
| **Silkscreen Color** | White |
| **Operating Temperature** | 0 °C~ 40 °C |
| **Power Consumption** | 0.7 W |

## 9. ACRONYMS

| ACRONYM | COMPLETE TERM |
|---|---|
| **ADC** | Analog to Digital Converter |
| **COAX** | Coaxial |
| **S/PDIF** | Sony/Philips Digital Interconnect Format |
| **TOSLINK** | Toshiba Link |