# Universal Digital / Analog Audio Converter with Dolby Digital Decoder - ID# 740

## Operation Manual

## Introduction

The Universal Digital/Analog Audio Converter with Dolby Digital Decoder is a gadget that can convert Optical, Coaxial and L/R audio signals with output sound guarranty. With the ability to convert digital signals into analog and analog signals into digital, this gadget supports the simultaneous conversion of audio formats so when you are converting Optical into L/R audio you can also convert it into Coaxial and enjoy it without pop sound or suddend disappear. Therefore, if you find yourself limited by multiple audio formats, why not consider the Universal Digital/Analog Audio Converter with Dolby Digital Decoder and find out what pure audio sounds like.
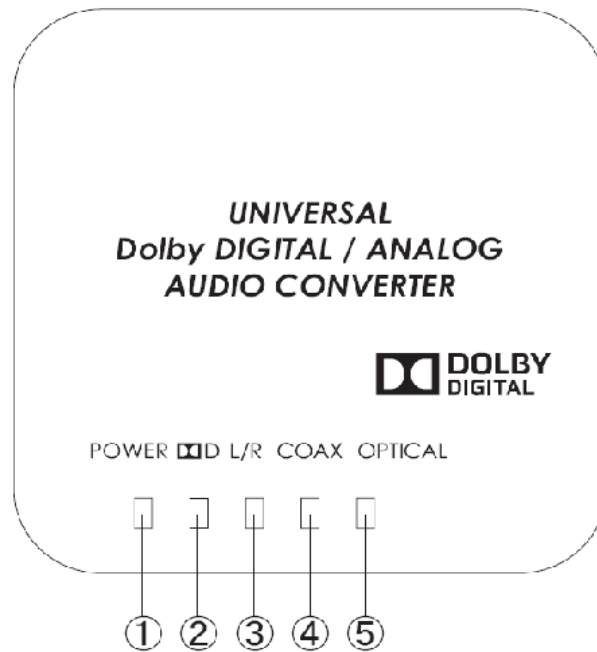
## Aplications

- Analog audio to digital audio signal conversion
- Digital audio to analog audio signal conversion with Dolby Digital Decoder
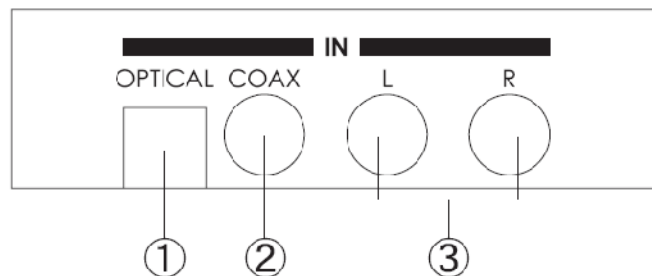- Simultaneously digital and analog audio output

## Features

- Dolby Digital Decoder technology embedded
- Integrated digital interpolator filter and Digital-to-Analog Converter (DAC)
- Integrated Analog –to-Digital Converter (ADC)
- Supports sampling frequencies from 32 to 96kHz
- Provides electromagnetic-noise-free transmission
- Easy to install and operate
- Compact and elegant design

CONVERTERS.TV

**Operation Controls
and Functions
Top Panel**

UNIVERSAL
Dolby DIGITAL / ANALOG
AUDIO CONVERTER

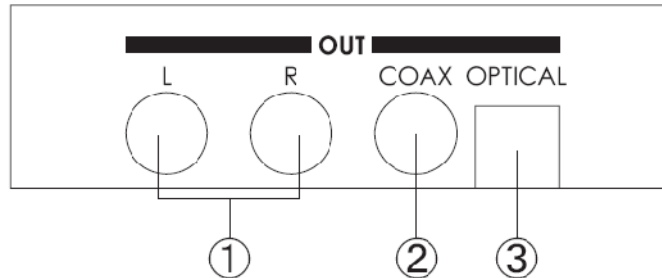**DC DOLBY
DIGITAL**

POWER DCD L/R COAX OPTICAL

① ② ③ ④ ⑤

① When the device is turned on the LED is green, and when turned off the devices LED is red. When the power plug us connected with AC wall outlet the device will automatically turn on.

② **Dolby Digital LED indicator:** When the input source is with Dolby Digital signal the LED will illuminate in red and if its without the LED will not illuminate.

③ **Input Analog 2CH LED indicator:** When selecting L/R input, the blue LED will turn on.

④ **Input Coax LED indicator:** When selecting Coaxial input, the blue LED will switch on.

⑤ **Input Optical LED indicator:** When selecting Optical input, the blue LED will turn on.
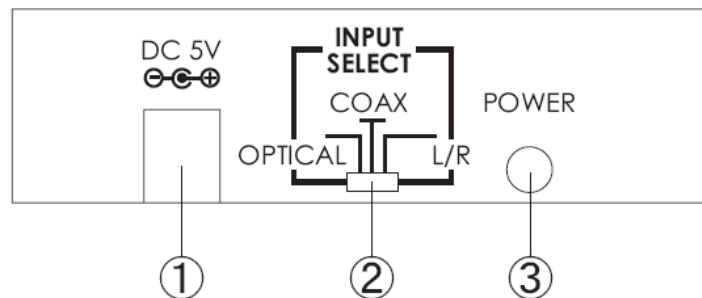
**Right Panel**

IN

OPTICAL COAX L R

① ② ③

CONVERTERS.TV

① **OPTICAL:** The audio sources optical cable connects here.
② **COAX:** Connect audio sources Coaxial cable in this socket.
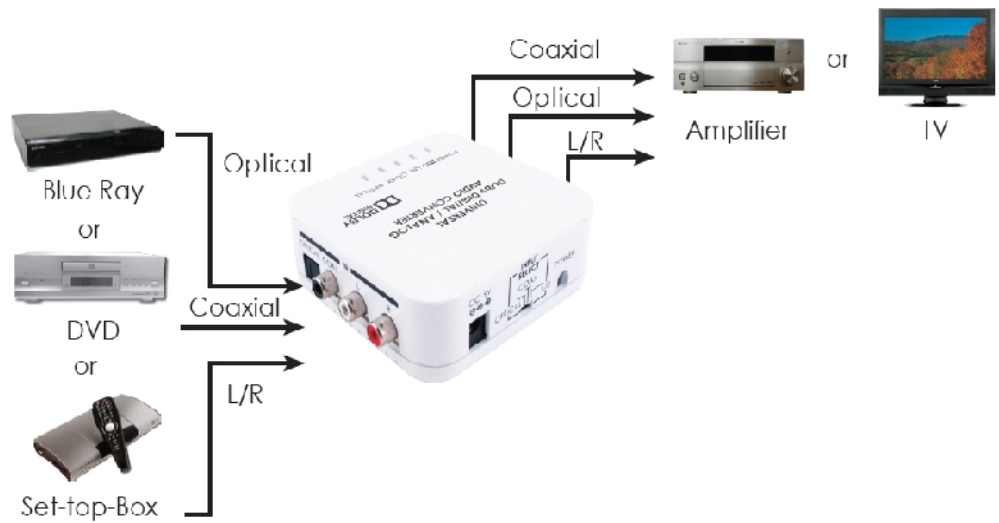③ **L/R:** This is where you insert the audio sources L/R cable.

**Left Panel**

① **L/R:** Connect to a compatible audio device, such as a TV or amplifier with an L/R audio cable.
② **COAX:** Connect to an audio sources (TV or amplifier) coaxial input.
③ **OPTICAL:** This is used to connect with a TV or amplifiers optical jack.

**Back Panel**

① **DC 5V Power Jack:** Plug the 5V 1A DC power supply into the unit and connect the adaptor to an AC wall outlet.
② **INPUT SELECT:** Use this switch to select the current audio source, either optical, coaxial or L/R.
③ **Power Switch:** Push the button to turn on or switch off the device.

CONVERTERS.TV

**Connection**



**Audio Specifications**

| IN \ OUT | Output | Output | T.H.D+N (A-Weight) | Frequency Response | SNR | Crosstalk |
|---|---|---|---|---|---|---|
| Optical 0dBFS | Optical | 0 dBFS | <0.00001% | 0 dBFS | >144 dB | <-161 dB |
| | Coaxial | 0 dBFS | <0.00001% | 0 dBFS | >144 dB | <-161 dB |
| | Line-Out | 1.8Vrms+-0.1 | <0.01% | <0.5 dB | >109 dB | <-100 dB |
| Coaxial 0dBFS | Optical | 0 dBFS | <0.00001% | 0 dBFS | >144 dB | <-161 dB |
| | Coaxial | 0 dBFS | <0.00001% | 0 dBFS | >144 dB | <-161 dB |
| | Line-Out | 1.8Vrms+-0.1 | <0.01% | <0.5 dB | >108 dB | <-100 dB |
| Line 2Vrms | Optical | 0 dBFS | <0.00001% | <0.5 dB | >96 dB | <-113 dB |
| | Coaxial | 0 dBFS | <0.00001% | <0.5 dB | >96 dB | <-113 dB |
| | Line-Out | 1.8Vrms+-0.1 | <0.01% | <1 dB | >95 dB | <-100 dB |

**Input Audio to Output Audio Chart**

| Audio Input | Input Format | Audio Output | | |
|---|---|---|---|---|
| | | Analog L/R | COAXIAL | OPTICAL |
| Analog L/R | Analog 2CH | Analog 2CH | LPCM 2CH | |
| COAXIAL OPTICAL | LPCM 2CH | Analog 2CH | LPCM 2CH | |
| | Dolby Digital | Decoding Lt/Rt | Bypass | |

## Specifications

| | |
|---|---|
| **Input Ports** | Optical, Coaxial and L/R |
| **Input Format** | LPCM 2CH and Dolby Digital from Optical/Coaxial |
| **Sample Frequency** | 32kHz, 96kHz |
| **Output Ports** | Coaxial, Optical and L/R |
| **L/R Input Impedance** | 47KΩ |
| **L/R Output Impedance** | 600Ω |
| **ESD Protection** | Human body model:<br>± 10kV (air-gap discharge)<br>± 6kV (contact discharge) |
| **Power Supply** | 5V / 1A DC (US/EU standard, CE/FCC/UL certified) |
| **Dimensions(mm)** | 97(W) x 85(D) x 35(H) |
| **Weight(g)** | 120 |
| **Chassis Material** | Plastic |
| **Silkscreen Color** | White |
| **Operating Temperature** | 0ºC~40ºC / 32ºF~104ºF |
| **Storage Temperature** | -20ºC~60ºC / -4ºF~140ºF |
| **Power Consumption** | 1W |
| **Relative Humidity** | 20~90% RH (non-condensing) |