

# **Optical to Analog Audio Converter with Dolby Digital Decoder - ID# 15188**



**Operation Manual**

## Introduction

The Optical to Analog Audio Converter (DAC) with Dolby Digital Decoder provides the ideal solution for converting an optical digital audio signal to analog stereo audio. With audio sampling rate support up to 48 kHz (Dolby Digital)/96 kHz (LPCM) and I/O data rate support up to 24-bit, it provides high quality sound conversion. The Dolby Digital Decoder function guarantees that Dolby digital audio signals are downmixed to analog stereo without loss of quality. This unit is perfect for use in computer audio systems or digital mixing consoles and can be powered from any spare USB port allowing it to be used with USB equipped HDTVs, Blu-ray players or computers without the need for a separate power supply.

## Features

- Supports optical digital audio signal input and conversion into analog audio signal L/R output
- Supports uncompressed digital LPCM stereo or Dolby Digital 5.1CH audio inputs
- Supports LPCM 2CH audio sampling rates from 32 to 96 kHz (32, 44.1, 48, 88.2 and 96 kHz)
- Supports Dolby Digital 5.1CH audio sampling rates of 48 kHz
- Supports Dolby Digital audio downmixing to 2-channel audio
- Supports S/PDIF bitstream 24-bit of data for the left and right channels
- Compact, elegant design and easy to install

## Applications

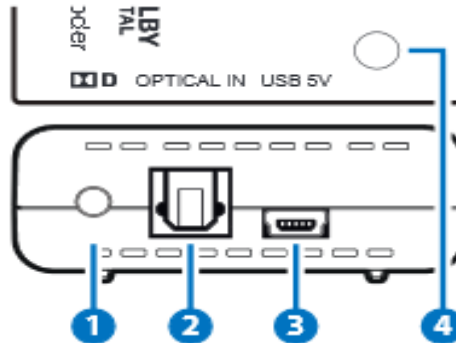
- Converting digital optical audio into analog stereo
- Converting Dolby Digital formatted audio into analog stereo
- HDTV with only digital audio output to analog amplifier input
- Improving the digital to analog conversion quality from any stereo optical digital audio source

## System Requirements

Digital audio source device such as DVD/Blu-ray player or Media player with an optical output cable and to a device such as an amplifier or AV receiver with analog stereo input.

## Operation Controls and Functions

### Front Panel



**1. Dolby/PCM LED Indicator:**

When the source audio is encoded with Dolby Digital the LED will illuminate.

**2. OPTICAL IN:**

Connect the Optical input to an Optical digital audio source, such as a Games Console, HDTV or Set-top Box.

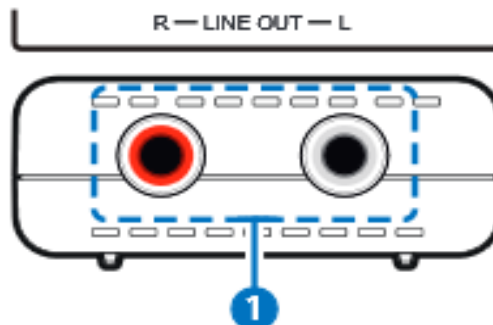
**3. USB 5V:**

Connect the USB power port to any powered USB with a Mini-USB cable or Mini-USB to AC adaptor

**4. Power LED:**

The LED will illuminate when connected to power.

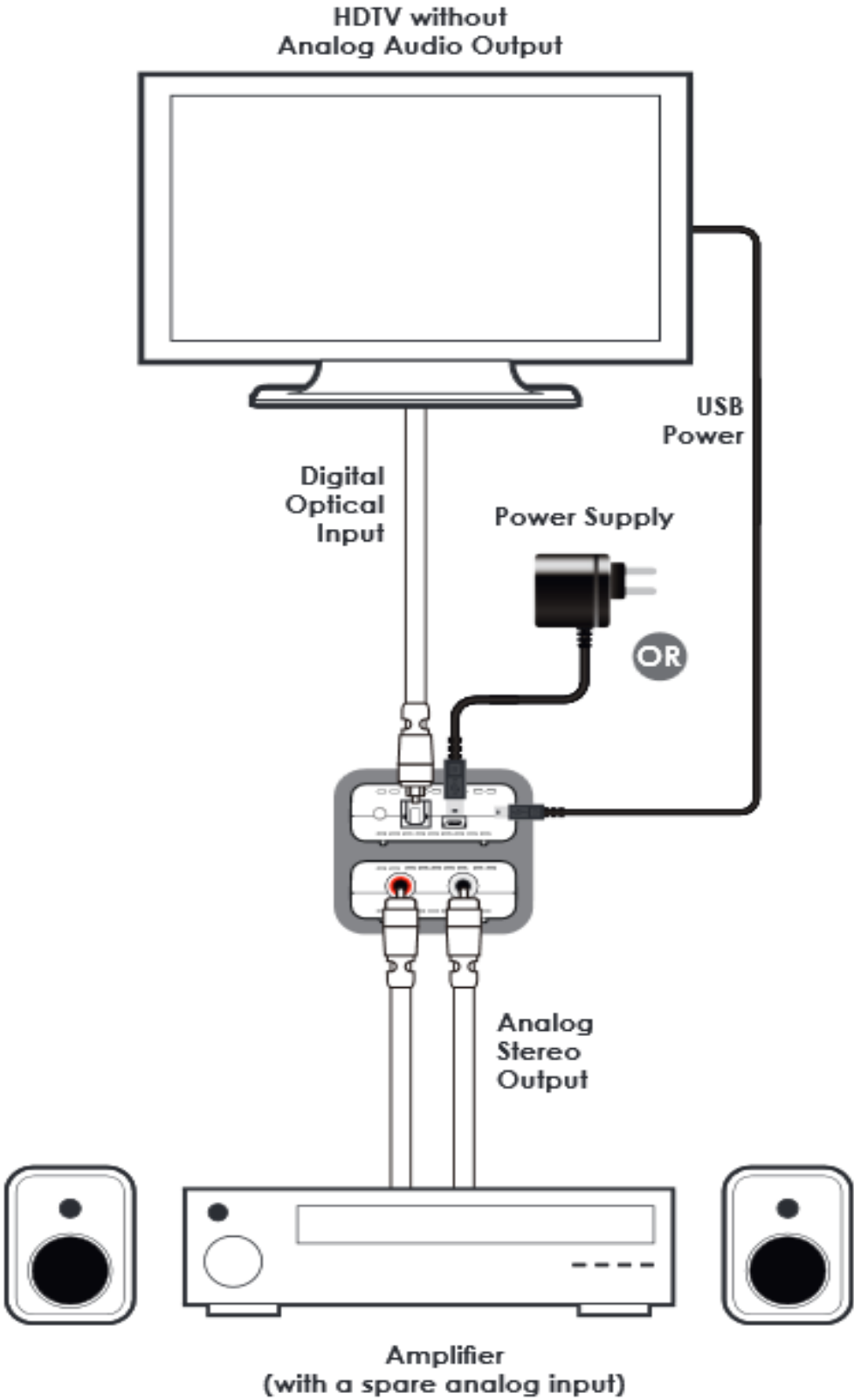
### Back Panel



**1. R/L LINE OUT:**

Connect the R/L analog audio output to the input of your AV Receiver or audio system.

Connection Diagram



## Specifications

<b>Input Port</b>	1×Optical
<b>Output Port</b>	1×L/R (2×RCA)
<b>Power Supply</b>	Powered by USB bus
<b>Output Level</b>	1Vrms ± 10%
<b>Total Harmonic Distortion+N</b>	<0.018%
<b>Frequency Response</b>	±1 dB
<b>Signal to Noise Ratio</b>	>80 dB
<b>Crosstalk</b>	<-80 dB
<b>Dimensions</b>	55 mm (W)×82 mm (D)×22.5 mm (H)
<b>Weight</b>	46 g
<b>Chassis Material</b>	Plastic
<b>Silkscreen Color</b>	White
<b>Operating Temperature</b>	0℃ ~ 40℃/32℉ ~ 104℉
<b>Storage Temperature</b>	-20℃~60℃/-4℉~140℉
<b>Relative Humidity</b>	20~90% RH (non-condensing)
<b>Power Consumption</b>	1.8 W