

AU-D1D

Optical to L/R Stereo Audio Converter
with Dolby® Digital Decoder

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	SUMMARY OF CHANGE
RDV1	11/12/12	Preliminary Release
RDV2	30/01/13	ID Printing
v1.01	28/03/13	Updated Format & Diagrams
v1.02	29/04/13	Corrections

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1. INTRODUCTION

The Optical to L/R Stereo Audio Converter (DAC) with Dolby® Digital Decoder provides the ideal solution for converting an optical digital audio signal to analogue 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 analogue stereo without loss of quality.

This unit is perfect for use in digital recording systems, 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.

2. APPLICATIONS

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

3. PACKAGE CONTENTS

- /// Optical to L/R Stereo Audio Converter with Dolby Digital Decoder
- /// USB Power Cable
- /// Operation Manual

4. SYSTEM REQUIREMENTS

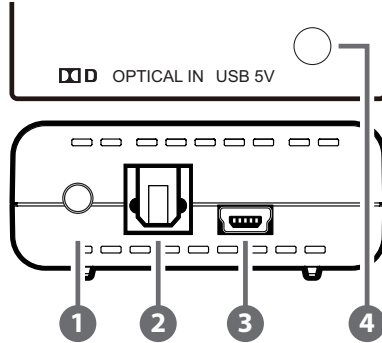
Digital audio source device such as DVD/Blu-ray player or Media player with an optical output cable and to a device such as an amplifier or AV receiver with analogue stereo input.

5. FEATURES

- /// Supports optical digital audio signal input and conversion into analogue audio signal L/R output
- /// Supports uncompressed digital LPCM stereo or Dolby Digital 5.1CH audio inputs
- /// Supports LPCM audio sampling rates from 32 to 96 kHz (32, 44.1, 48, 88.2 and 96 kHz)
- /// Supports Dolby Digital audio sampling rates of 32, 44.1 and 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

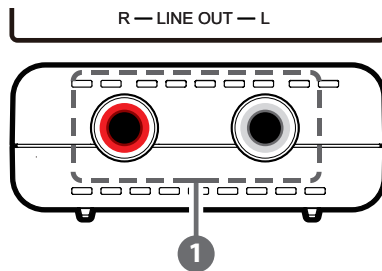
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



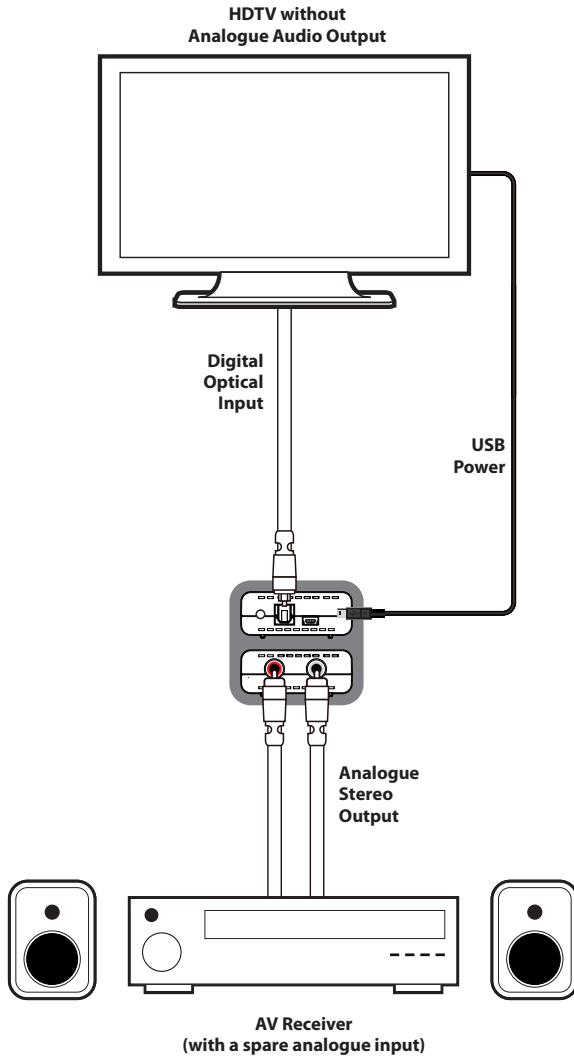
- 1 **Dolby/PCM LED Indicator:** When the source audio is encoded with Dolby Digital the LED will illuminate.
- 2 **OPTICAL IN:** Connect the Optical input to an Optical digital audio source, such as a Games Console, HDTV or Set-top Box.
- 3 **USB 5V:** Connect the USB power port to a any powered USB with a Mini-USB cable.
- 4 **Power LED:** The LED will illuminate when connected to power.

6.2 Rear Panel



- 1 **R/L LINE OUT:** Connect the L/R analogue audio output to the input of your AV Receiver or audio system.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Input Port	1×Optical
Output Port	1×L/R
Power Supply	Powered by USB bus
Output Level	1Vrms ± 0.1
T.H.D+N	<0.01%
Frequency Response	<0.5 dB
SNR	>80 dB
Crosstalk	< -110 dB
Dimensions	55 mm (W)×82 mm (D)×22.5 mm (H)
Weight	65 g
Chassis Material	Plastic
Silkscreen Color	Black
Operating Temperature	0 °C ~ 40 °C/32 °F ~ 104 °F
Storage Temperature	-20 °C~60 °C/-4 °F~140 °F
Relative Humidity	20~90% RH (non-condensing)
Power Consumption	1.68 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
DAC	Digital to Analogue Converter
Ω	Ohm
RCA	Audio Connector (Radio Corporation of America)
S/PDIF	Sony/Philips Digital Interconnect Format
SNR	Signal-to-noise Ratio
THD	Total Harmonic Distortion
USB	Universal Serial Bus