

Digital/Analog Audio Converter with Dolby Digital Decoder - # 15356



Operation Manual

Introduction

The Universal Digital/Analog Audio Converter with Dolby Digital decoder is designed to convert audio between Optical, Coaxial and analog audio formats. With the ability to convert digital signals into analog and analog signals into digital, this device supports the simultaneous conversion of audio formats allowing you to choose between optical, coaxial or analog or all three at the same time. The Universal Digital/Analog Audio Converter with Dolby Digital decoder is the perfect choice when you need to deal with multiple audio formats.

Applications

- Analog audio to digital audio signal conversion (ADC)
- Digital audio to analog audio signal conversion (DAC)
- Simultaneous digital and analog audio output
- Downmixing of Dolby Digital signals

Features

- HDMI, HDCP1.1 and DVI 1.0 compliant receiver.
- Deep Color video upto 12-bits, 1080p@24/60Hz.
- Allows one HDMI source to simultaneously output to up to eight HDMI displays.
- HDCP keysets allows each output to work independently when connected to an HDMI display.
- Transmits an HDMI source to eight outputs without any signal loss.
- Supports DVI source/display by using an optional HDMI/DVI adaptor cable.
- Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission (32~192KHz sampling rate).
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p.
- HDMI cable distance tested to 15m with 1080p/8-bit resolution, and 10m with 1080p/12-bit resolution

System

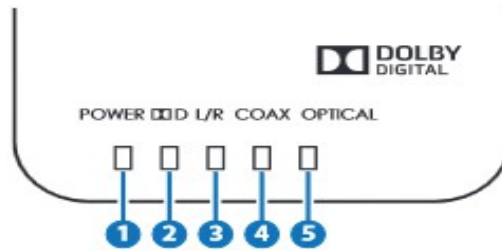
Requirements

Audio source equipment such as a CD/DVD Player with suitable connection cable(s) and an AV receiver or similar device for audio output.



Operation Controls and Functions

Front Panel



1. POWER LED:

The LED will illuminate blue when connected to power and in red when switched off.

2. Dolby Digital LED:

The LED will illuminate when the the audio source is Dolby Digital encoded.

3. L/R IN LED:

The LED will illuminate blue to indicate that the L/R input is selected.

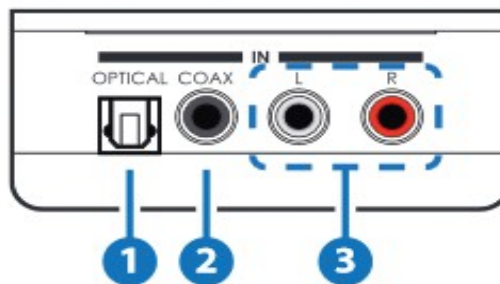
4. COAX IN LED:

The LED will illuminate blue to indicate that the COAX input is selected.

5. OPTICAL IN LED:

The LED will illuminate blue to indicate that the OPTICAL input is selected.

Right Panel



1. OPTICAL IN:

Connect to the OPTICAL output of the audio source.

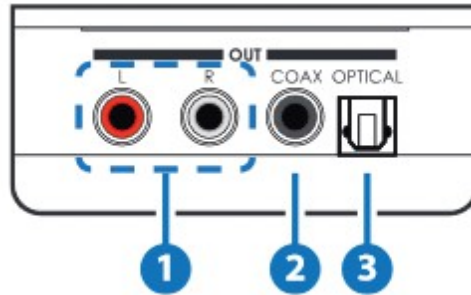
2. COAX IN:

Connect to the COAX output of the audio source.

3. L/R IN:

Connect to the analog (L/R) output of the audio source with a stereo RCA cable.

Left Panel



1. L/R OUT:

Connect to the analog (L/R) audio input of the audio system such as a TV or amplifier with a stereo RCA cable.

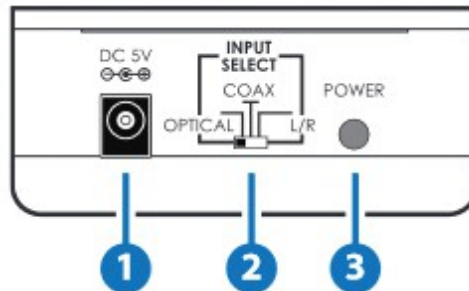
2. COAX OUT:

Connect to the audio system's coaxial input.

3. OPTICAL OUT:

Connect to the audio system's optical input.

Rear Panel



1. DC 5V:

Connect the 5V/1A DC power supply to the unit and plug the adaptor to an AC wall outlet.

2. INPUT SELECT:

Selects the required audio source, either optical, coaxial or L/R (Analog).

3. POWER:

Push the button to turn the unit on or off

Specifications

Input Ports	1×Optical, 1×Coaxial, 1×Analog Stereo (L/R)
Output Ports	1×Coaxial, 1×Optical, 1×Analog Stereo (L/R)
Optical/Coaxial Input Audio Formats	LPCM 2CH & Dolby Digital
Audio Sampling Rates	32~96kHz
L/R Input Impedance	47KΩ
L/R Output Impedance	600Ω
ESD Protection	Human body model: ±10kV (air-gap discharge) ±6kV (contact discharge)
Power Supply	5V/1A DC (US/EU standard, CE/FCC/UL certified)
Dimensions	97mm (W)×85mm (D)×35mm (H)
Weight	110g
Chassis Material	Plastic
Color	White
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	2.1W

Audio Specifications

OUT IN	OUTPUT	OUTPUT LEVEL	T.H.D+N (A-WEIGHT)	FREQUENCY RESPONSE	SNR	CROSS-TALK
Optical 0dBFS	Optical	0~1 dBFS	<0.01%	±1 dBFS	>80 dB	<-85 dB
	Coaxial	0~1 dBFS	<0.01%	±1 dBFS	>80 dB	<-85 dB
	Line-Out	2Vrms±0.1	<0.01%	±1 dB	>80 dB	<-80 dB
Coaxial 0dBFS	Optical	0~1 dBFS	<0.01%	±1 dBFS	>80 dB	<-85 dB
	Coaxial	0~1 dBFS	<0.01%	±1 dBFS	>80 dB	<-85 dB
	Line-Out	2Vrms±0.1	<0.01%	±1 dB	>80 dB	<-80 dB
Line 2Vrms	Optical	0~1 dBFS	<0.01%	±1 dB	>80 dB	<-80 dB
	Coaxial	0~1 dBFS	<0.01%	±1 dB	>80 dB	<-80 dB
	Line-Out	2Vrms±0.1	<0.01%	±1 dB	>80 dB	<-80 dB

Audio Format Supports

AUDIO INPUT	INPUT FORMAT	AUDIO OUTPUT		
		ANALOG L/R	COAXIAL	OPTICAL
Analog L/R	Analog 2CH	Analog 2CH	LPCM 2CH	
COAXIAL	LPCM 2CH	Analog 2CH	LPCM 2CH	
OPTICAL	Dolby Digital	Decoding L/R	Bitstream Pass-through	

Connection Diagram

