DCT-3HP

Digital to Headphone Audio Converter

Operation Manual

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. Cypress Technology assumes no responsibility for any infringements of patents or other rights of third parties which may result from its use.

Cypress Technology assumes no responsibility for any inaccuracies that may be contained in this document. Cypress also makes no commitment to update or to keep current the information contained in this document.

Cypress Technology reserves the right to make improvements to this document and/or product at any time and without notice.

COPYRIGHT NOTICE

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or any of its part translated into any language or computer file, in any form or by any means—electronic, mechanical, magnetic, optical, chemical, manual, or otherwise—without express written permission and consent from Cypress Technology.

© Copyright 2011 by Cypress Technology.

All Rights Reserved.

Version 1.1 August 2011

TRADEMARK ACKNOWLEDGMENTS

All products or service names mentioned in this document may be trademarks of the companies with which they are associated.

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	25/11/11	First release

CONTENTS

1. Introduction **1**
2. Applications **1**
3. Package Contents **1**
4. System Requirements **1**
5. Features **1**
6. Operation Controls and Functions **2**
6.1 Upper Panel 2
6.2 Lower Panel 2
6.3 Left Panel 3
6.4 Right Panel 3
6.5 Top Panel 4
7. Connection Diagram **5**
8. Specifications **6**
9. Acronyms **6**

1. INTRODUCTION

The Digital to Headphone Audio converter is an easy to use device that converts and amplifies (200mW Cap-Less) Coaxial or Optical digital audio into analogue headphone audio. This device can switch between Coaxial or Optical sources and also has a convenient volume control.

2. APPLICATIONS

- Converting a Digital Coaxial or Optical input to analogue headphone output

3. PACKAGE CONTENTS

- Digital to Headphone Audio Converter
- 3.3V/1.5A DC Power Adaptor
- Operation Manual

4 SYSTEM REQUIREMENTS

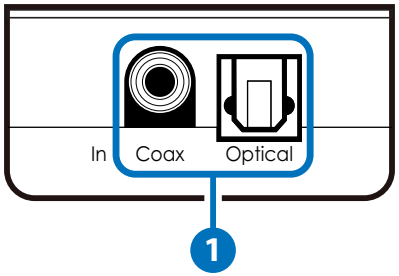
Input source equipment with digital audio output such as CD Player or DVD/Blu-ray player and 3.5mm stereo jack output to headphone.

5. FEATURES

- Supports up to 192K/24-bit digital audio input (Coaxial/Optical) Supports 2 channel PCM from Coaxial/Optical input
- Built-in 200mW Cap-Less Headphone amp
- Compact size and easy to install

6. OPERATION CONTROLS AND FUNCTIONS

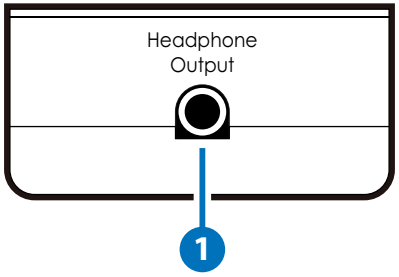
6.1 Upper Panel



1 Coax/Optical Input

Connect the Coaxial/Optical inputs into the Coaxial/Optical audio source such as DVD/Blu-ray player or Set Top Box.

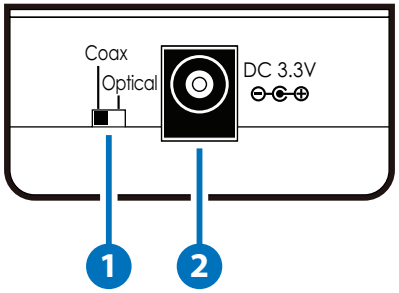
6.2 Lower Panel



1 Headphone Output

Connect the 3.5mm phone jack headphone and enjoy digital audio from either Coaxial/Optical input.

6.3 Left Panel



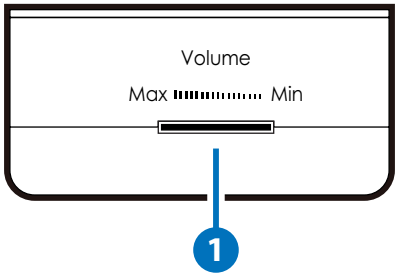
1 Coax/Optical Switcher

Moving the switch determines which input Audio source is active and will be converted to headphone stereo audio.

2 Power

Plug 3.3 V DC power supply into the unit and connect the adaptor to AC wall outlet.

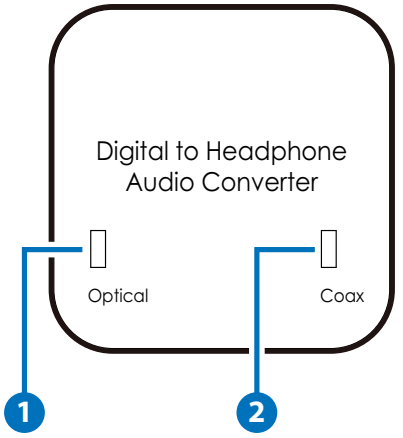
6.4 Right Panel



1 Headphone Volume

Adjusts the headphone output volume.

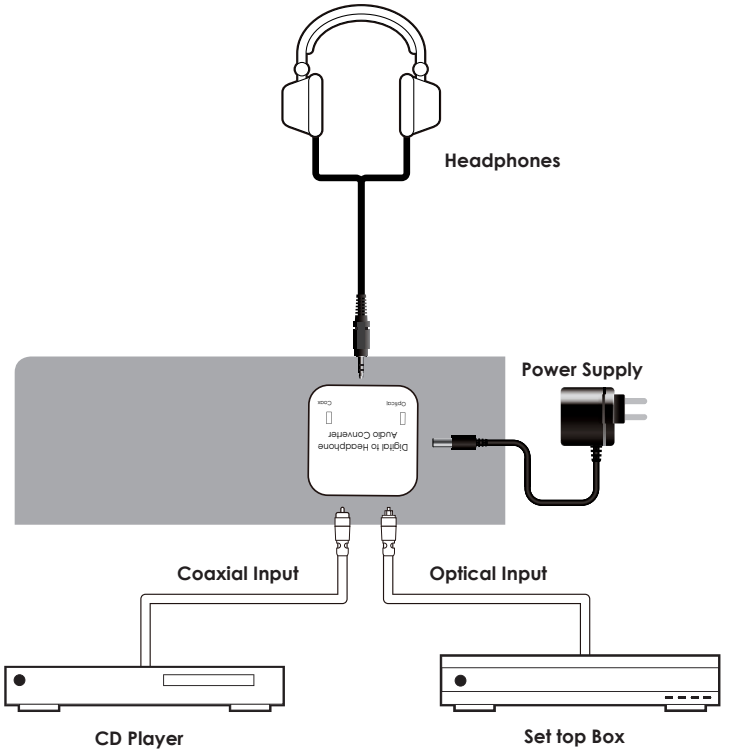
6.5 Top Panel



1 / 2 Optical/Coax Input LED

When lit, indicates which digital output is selected.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

Input Ports	Coaxial and Optical
Input Format	SPDIF PCM 2 CH
Sample Frequency	32KHz~192K/24-bit
Output Ports	3.5mm Headphone jack
Output power	200mW
Headphone Impedance	16Ω ~ 32Ω
Power Supply	3.3V/1.5A power adaptor (US/EU standards, CE/FCC/UL certified)
Dimensions	42mm (W) × 40.5mm(D) × 22mm(H)
Weight	25g
Chassis Material	Plastic
Silkscreen Color	White
Operating Temperature	0 °C~40 °C
Power Consumption	0.7W

9. ACRONYMS

ACRONYM	COMPLETE TERM
ESD	Electrostatic Discharge
LED	Light-emitting Diode

CYPRESS TECHNOLOGY CO., LTD
Home page: http://www.cypress.com.tw