



AU-11CD

v1.3 HDMI Audio De-Embedder
(5.1) with built in repeater

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 2010 by Cypress Technology.

All Rights Reserved.

Version 1.0 December 2010

• **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 or 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 module openings or empty slots, as you may damage parts.
- Do not attach the power supply cabling to building surfaces.
- Do not allow anything to rest on the power cabling or allow it to be abused by persons walking on it.
- To protect the equipment from overheating, do not block the slots and openings in the module housing that provide ventilation.

• **Revision History**

Version No	Date	Summary of Change
RDV2	20101124	Preliminary Release

Table of Contents

1. Introduction	1
2. Applications	1
3. Package Contents	1
4. System Requirements	1
5. Features	2
6. Specifications	3
7. Operation Controls and Functions	4
7.1 Top Panel	4
7.2 Right Panel	4
7.3 Left Panel	5
7.4 Upper Panel	5
7.5 Rear Panel	6
8. Connection and Installation	7
9. Acronyms	8

1. Introduction

The HDMI™ Audio Extractor is a device that allows you to extract audio signals from your HDMI/DVI source. When connecting with a TV or display you don't always get great audio, or in the case of a display, no audio at all, so with this Audio Extractor you can take your original HDMI audio signal and convert it to optical and L/R audio. What this means is that you can output your audio signal to external speakers or extend your audio signal, the HDMI™ Audio Extractor is the perfect choice.

2. Applications

- Game entertainment on monitor
- Demonstration display
- Showroom display

3. Package Contents

- HDMI Audio Extractor
- 5V / 1.2A Power Adaptor
- Operation Manual

4. System Requirements

Input source equipments and output display TV/monitor and or amplifier/ active speaker with connection cables.

5. Features

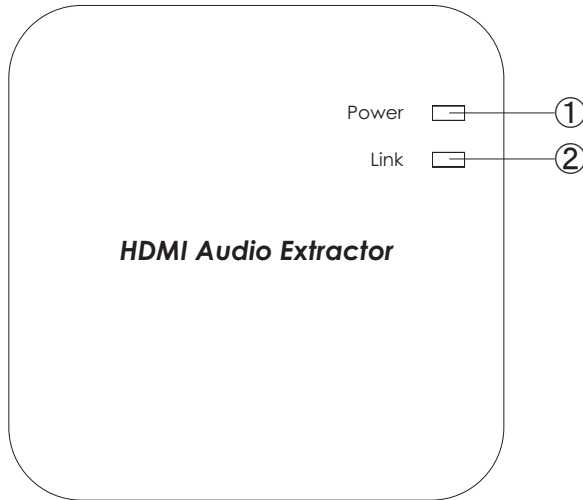
- Compliant with HDMI 1.3, HDCP 1.2 and DVI 1.0
- Supports HDMI Sample Rates up to 192 kHz
- Supports Optical Sample Rate up to 48 kHz
- Supports TMDS clock frequency rate 225MHz
- Supports high-bit-rate (HBR) audio
- HDMI cable distance testing showed that with 1080p 8bit resolution, the input & output can run up to 15 meters
- Low power consumption
- Support built-in audio EDID switch of LPCM2,5.1/7.1 or Bitstream

6. Specifications

Input Port	1 x HDMI
HDMI Sample Frequency	Up to 192 kHz
Optical Sample Frequency	Up to 48 kHz
Output Port	1 x HDMI, 1 x Optical, 1 x L/R
HDMI Audio Format	PCM2/5.1/7.1, Dolby 5.1, DTS 5.1, DD+, D-TrueHD, DTS-HD
Optical Audio Format	PCM2, Dolby 5.1, DTS 5.1
L/R Audio Format	LPCM2
Power Supply	5V / 1.2A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: $\pm 8\text{kV}$ (air-gap discharge) $\pm 6\text{kV}$ (contact discharge)
Dimensions(mm)	100 (W) x 70 (D) x 20(H)
Weight(g)	90
Chassis Material	Plastic
Silkscreen Color	White
Power Consumption	100W
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Power Consumption	1.5W
Relative Humidity	20 ~ 90% RH (non-condensing)

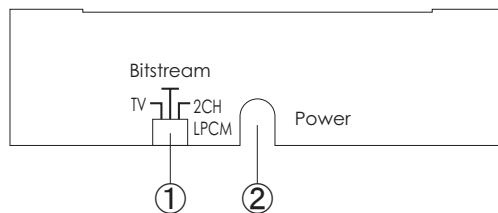
7. Operation Controls and Functions

7.1 Top Panel



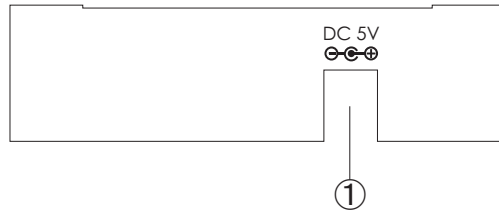
- ① Power LED: The blue LED will illuminate when the power is connected with AC wall outlet, when the power button is pressed to set the device off the LED will turn off.
- ② LINK: The LED will illuminate in green when both the source and the display are sync together. This LED will also blink once while the power is turned on.

7.2 Right Panel



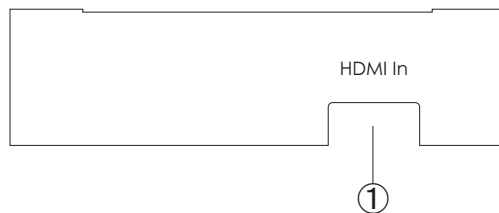
- ① Bitstream TV/2CH LPCM: This switch allows user to select the audio output preference from HDMI to HDMI (TV), Optical (Bitstream) or L/R(2CH LPCM).
- ② Power Button: Press this button switch ON or set the device to standby mode.

7.3 Left Panel



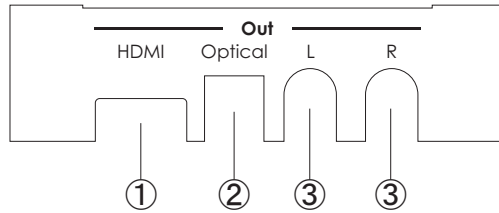
- ① DC 5V: This slot is where you plug the 5V DC power supply into the unit and connect the adaptor to an AC wall outlet.

7.4 Upper Panel



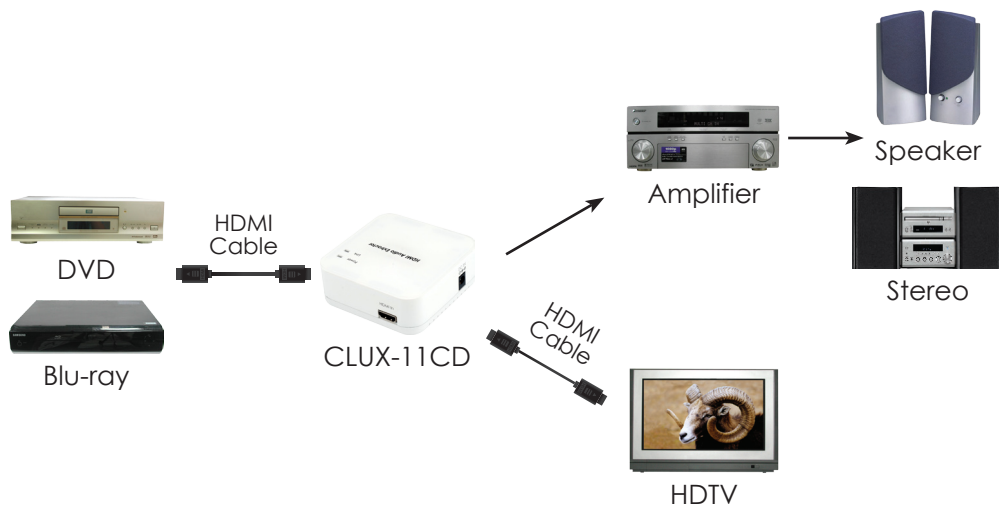
- ① HDMI In: This slot is to connect to source equipment such as DVD/Blue-Ray player with HDMI cable.

7.5 Rear Panel



- ① HDMI Out: This slot is to connect with display TV/monitor and HDMI cable for video and audio signal output.
- ② Optical Output: This slot is to connect with audio equipment such as amplifier system or Hi-Fi speaker with optical cable for audio signal output.
- ③ L/R Output: These slots are to connect with audio equipment such as CD player or active speaker with L/R RCA jack for audio signal output.

8. Connection and Installation





Acronyms

Acronym	Complete Term
DVI	Digital Visual Interface
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface



www.cypeurope.com

