DCT-25

ARC to Analog Audio Converter

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 DD/MM/YY	SUMMARY OF CHANGE
VR0	07/01/14	Preliminary Release
VS1	12/03/14	Amended Text/Diagrams

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 Front Panel 2

6.2 Rear Panel 2

7. Connection Diagram **3**

8. Specifications **4**

8.1 Technical Specifications 4

8.2 Audio Specifications 4

9. Acronyms **5**

1. INTRODUCTION

The ARC to Analog Audio Converter is designed to extract the audio signal from an HDTV's HDMI ARC (Audio Return Channel) connection and convert it to an analog stereo signal, allowing the connection of an HDTV with HDMI-only output to non-HDMI equipped amplifiers, AV receivers or active speakers. It supports HDMI audio sampling rates up to 192kHz and analog stereo (2 CH) audio output.

2. APPLICATIONS

- HDMI/ARC audio conversion to analog stereo output
- TV audio output over external analog sound system/active speakers

3. PACKAGE CONTENTS

- 1×ARC to Analog Audio Converter
- 1×5V/1A DC Power Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

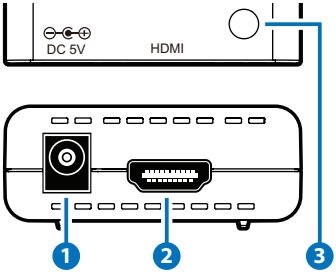
TV/Display with ARC enabled HDMI connection and analog stereo sound system or active speakers.

5. FEATURES

- Supports Digital to Analog audio Conversion (DAC)
- Extracts the HDMI audio signal from a HDTV's ARC connection and converts it to a line level analog stereo output
- Supports HDMI audio sampling rates up to 192kHz
- Simultaneous audio from the TV speakers and Line Level output
- Supports volume control from the TV's remote control via CEC function
- Plug and play with no software required

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel

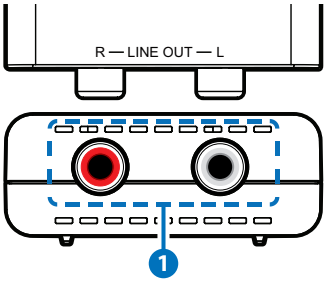


1. **DC 5V:** Connect the 5V DC power supply to the unit and plug the adaptor into an AC outlet.
2. **HDMI:** Connect to a TV/Display's ARC enabled HDMI connector with an active audio signal.

   Note:

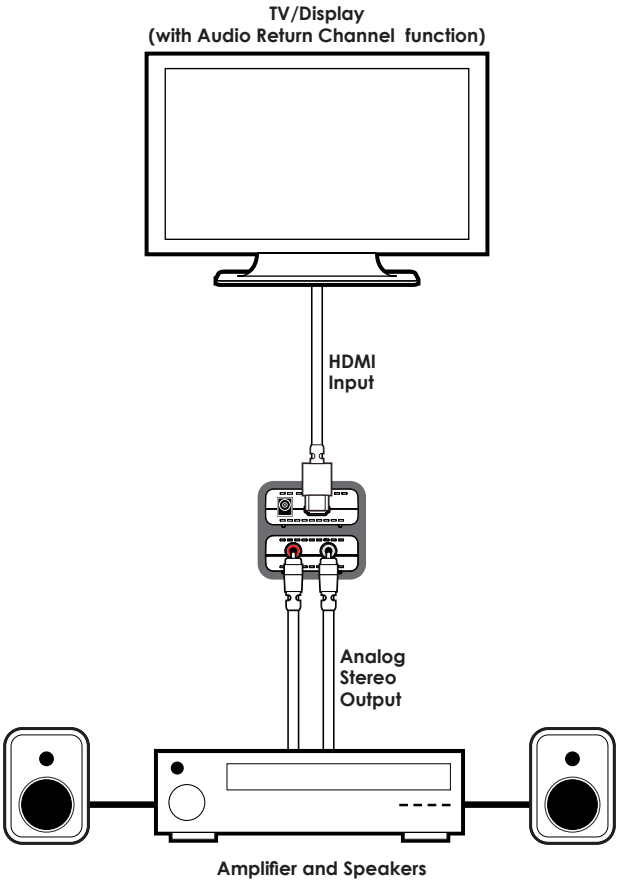
   1. *To ensure proper ARC audio performance, an HDMI High Speed cable is required.*
   2. *The ARC function must be enabled in the TV/Display's settings. Please refer to the manual for your model of TV/Display.*
3. **POWER LED:** The LED will illuminate when the device is connected to an active power supply.

6.2 Rear Panel



1. **LINE OUT:** Connect the R/L OUT to an analog stereo (R/L) amplifier or active speakers for audio output.

7. CONNECTION DIAGRAM



8. SPECIFICATIONS

8.1 Technical Specifications

HDMI ARC Port	1×HDMI (Female)
Output Port	1×Analog Stereo (2 RCA)
HDMI Audio Sampling Rates	Up to 192kHz
ESD Protection	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Power Supply	5 V/1 A DC (US/EU standard, CE/FCC/UL certified)
Dimensions	55mm (W)×75.5mm (D)×22.5mm(H)/Jacks Excluded 55mm (W)×80.5mm (D)×22.5mm(H)/Jacks Included
Weight	46g
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	0.72W

8.2 Audio Specifications

Input Level/Freq.	Output	Output Level	THD+N	Frequency Response	SNR	Crosstalk
HDMI **0dB/1kHz** **32kHz~192kHz**	L/R	2Vrms ±10%	<0.01%	±1 dBFS	>80 dB	<-80 dB

9. ACRONYMS

ACRONYM	COMPLETE TERM
ARC	Audio Return Channel
DAC	Digital to Analog Converter
CEC	Consumer Electronic Control
HDMI	High-Definition Multimedia Interface

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