



UserManual

CVAD

**18G HDMI Repeater
w/ Audio Extraction**

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Version: CVAD_2018V1.0

Statement

Read this user manual carefully before using this product. Pictures shown in this manual is for reference only, different model and specifications are subject to real product. This manual is only for operation instruction only, not for any maintenance usage. The functions described in this version are updated till March 2018. In the constant effort to improve our product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

Safety Precaution

To insure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module to avoid electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Do not expose the unit to rain, moisture or install this product near water.
- Install the device in a place with fine ventilation.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Refer all servicing to qualified service personnel.

Customer Service

We provide limited warranty for the product within **3 years** counting from the first day you buy this product (The purchase invoice shall prevail).

Introduction

The CVAD is a small-size HDMI2.0 audio de-embedder with 1 HDMI input, 1 HDMI output, and three kinds of audio outputs. It is designed to extract audio from 4K HDMI signal via stereo balanced L/R audio, analog RCA, and coaxial digital audio output ports.

It supports 4K@60Hz/4:4:4 HDR, EDID & CEC pass-through, and the transmission rate is up to 18Gbps. Moreover, there are three audio modes can be chosen in order to be compatible with various audio processing device.

Features

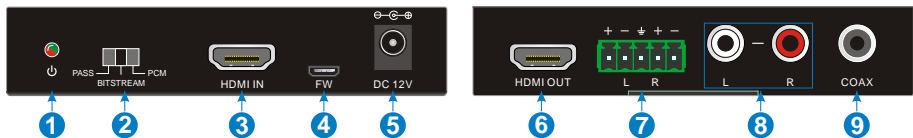
- Supports stereo balanced L/R audio, analog RCA, and coaxial digital audio output ports.
- Supports three audio modes: PASS, BITSTREAM, and PCM.
- HDMI input supports HDCP2.2, and the output supports HDCP1.4.
- Supports HDMI2.0 4K@60Hz/4:4:4 HDR, EDID & CEC pass-through.
- The transmission rate is up to 18Gbps.
- Coax digital audio supports LPCM 2CH, Doby Digital 2/5.1CH, DTS 2/5.1CH
- Supports HDMI High Bit Rate(HBR) audio pass through

Package List

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact your distributor for a replacement.

- 1 x CVAD
- 1 x Power Adaptor (12VDC,1A)
- 1 x User Manual
- 1 x 5-pin Phoenix Connector
- 4 x Plastic Cushions

Panel Description

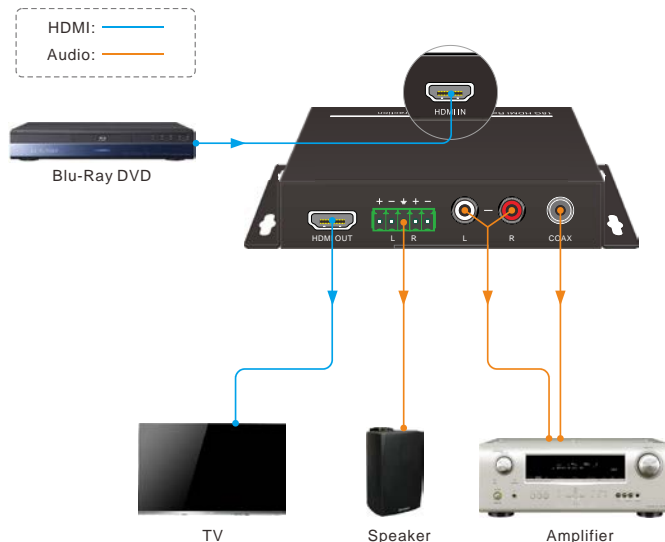


- ① Bicolor LED: RED when powered on, GREEN when HDMI signal input.
- ② Audio Modes Switcher:
 - PASS (default): The source device obtains its EDID from display.
 - BITSTREAM: If the display only supports PCM, and the format of audio source is DTS/Dolby, the switcher should be turned to BITSTREAM to ensure the DTS/Dolby audio can be output via HDMI and coaxial digital audio ports (⑥&⑨), there will be no audio output on analog audio ports(⑦&⑧).
 - PCM: If the digital audio need to be output via analog audio ports(⑦&⑧), the switcher should be turned to PCM, and the coaxial audio port(⑨) will also output PCM audio.
- ③ HDMI IN: Connect with HDMI source.
- ④ FW: Firmware upgrade.
- ⑤ DC 12V: Connect with the included power adaptor.
- ⑥ HDMI OUT: Connect with HDMI display.
- ⑦ L/R: Stereo balanced L/R audio output.
- ⑧ L/R: analog RCA audio output.
- ⑨ COAX: Coaxial digital audio output.

Specification

Video	
Input	(1) HDMI
Input connector	(1) 19-pin type-A female HDMI 2.0, HDCP2.2
Output	(1) HDMI
Output connector	(1) 19-pin type-A female HDMI 2.0, HDCP1.4
Audio	
Output	(1) Stereo balanced audio L/R; (1) Analog audio L+R ; (1) COAX
Output connector	(1) 5-Pin phoenix connector; (1) RCA ; (1) Coaxial audio connector
Stereo analog audio format	PCM
Coax digital audio format	LPCM 2CH, Doby Digital 2/5.1CH, DTS 2/5.1CH
General	
Max data rate	18Gbit/s
Max resolution	4Kx2K@60Hz 4:4:4
Work Temperature	-10~ 55℃
Reference humidity	10% ~ 90%
Power consumption	3 W (Max)
Power supply	Input: 100VAC~240VAC, 50/60Hz; Output: 12VDC 1A
Dimension (W*H*D)	129mm x 21.5 mm x77 mm
Net weight	244g

System Diagram



Note: This picture is for reference only, the specific scheme is subject to real devices.



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