



VLHA-DEM

HDMI 2.0 Audio De-embedder 18Gbps



User Manual

VER 1.02

Thank you for purchasing this product

Please read these instructions carefully for optimum performance and safety before connecting, operating, or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended.

This product contains sensitive electrical components that electrical spikes may damage, surges, electric shocks, lightning strikes, etc. The use of surge protection systems is highly recommended to protect and extend the life of your equipment.

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1. Introduction

The HDMI 18Gbps Audio Extractor could extract audio signals from any HDMI-compliant source to digital optical or analog stereo L/R audio outputs. Further, both input and output HDMI support video resolution up to 4K2K@50/60Hz (YUV444). It supports 10bits HDR (High Dynamic Range) pass-through and HDMI high resolution digital audio formats bypass, LPCM 2CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos, and DTS-HD Master Audio, with audio sampling rate up to 192 kHz. HDCP2.2 and CEC bypass is supported.

2. Features

- ✧ HDMI 2.0b (18Gbps), HDCP 2.2, and DVI compliant
- ✧ Video resolutions up to 4K2K@50/60Hz (YUV444)
- ✧ Extracts HDMI audio to multi-channel optical (SPDIF) or L/R analog audio
- ✧ Optical audio supports LPCM 2CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH
- ✧ Supports HDMI High Bit Rates (HBR) audio pass-through
- ✧ Audio sample rates up to 192kHz
- ✧ 10bits HDR (High Dynamic Range) pass-through Supports CEC bypass

3. Package Contents

- ① 1 x HDMI 18Gbps Audio Extractor
- ② 1 x 5V/1A Power Adaptor
- ③ 1 x User Manual

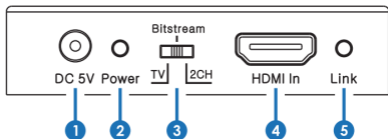
4. Specifications

Technical	
HDCP Compliance	HDCP2.2and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolutions	Up to 4K2K@50/60Hz(YUV4:4:4), 4K2K@30Hz, 1080P@120Hz, and 1080P3D@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	10-bit, 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1 CH, Dolby Digital, DTS5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Optical Audio Formats	LPCM 2CH, LPCM 5.1, Dolby Digital 2/5.1 CH, DTS 2/5.1 CH
L/R Audio Formats	Analog Stereo 2CH
ESD Protection	Human body model — ±8kV (air-gap discharge) & +4kV (contact discharge)
Connection	
Inputs	1x HDMI TypeA [19-pin female]

Outputs	1xHDMI Type A[19-pin female] 1x L/R Audio Out [3.5mm Stereo Mini-jack] 1x Optical Out[S/PDIF]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	73.5mm [W] x60.7mm [D] x17mm [H]
Weight	130g
Power Supply	Input : AC100- 240V 50/60 Hz Output: DC5V/1A(US/EU standards, CE/FCC/UL certified)
Power Consumption	1W(Max)
Operation Temperature	32-104°F/0-40°C
Storage temperature	-4- 140°F/-20-60°C
Relative Humidity	20 - 90% RH (Non-Condensation)

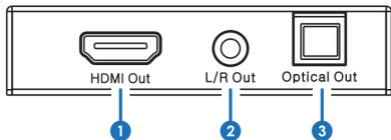
5. Operation Controls and Functions

5.1 Front Panel



- ① **DC5V:** Connect 5V/1A adaptor to AC wall outlet for power supply.
- ② **Power LED:** System power indicator.
- ③ **TV/Bit Stream / 2CH:** This allows users to select the audio format according to TV, Bit Stream, or LPCM 2CH.
- ④ **HDMI In:** Connect this to HDMI source devices such as Blu-ray or PS4 player.
- ⑤ **Link LED:** The LED will illuminate when detected HDMI input signal.

5.2 Rear Panel



- ① **HDMI Out:** Connect to HDMI display devices such as TV/ Projector.
- ② **L/R Out:** Connect to audio amplifier or TV L/R audio input port.
- ③ **Optical Out:** Connect to audio amplifier optical audio input port.

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6. Connection Diagram

