



VLHA-EREX

HDMI 2.0 eARC Audio Extractor



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 18Gbps HDMI eARC audio extractor supports the eARC function, which can extract eARC audio from a TV terminal and output it to the audio amplifier through the HDMI port so that the existing audio amplifier can play high-quality audio. It can effectively solve the problem that the supporting audio amplifier needs to be upgraded due to the upgrading of the TV.

2. Features

- ☆ HDMI 2.0b and HDCP 2.3 / 1.x compliant
- ☆ Supports 18Gbps video bandwidth
- ☆ Supports video resolution up to 4K2K@60Hz with 24bit RGB/YCbCr 4:4:4
- ☆ Supports VESA format up to QSXGA@60Hz
- ☆ HDR, HDR10, HDR10+, Dolby Vision pass-through
- ☆ Supports PCM 2.0, LPCM 5.1 / 7.1, Dolby Digital, Dolby digital plus, Dolby True-HD, Dolby Atmos, DTS 5.1, DTS ES 6.1, DTS HRA, DTS HD Master, DTS:X
- ☆ Built-in Equalizer, Retiming, and Driver
- ☆ Dedicated HDMI output for audio only with 720p black screen
- ☆ Supports eARC/ARC audio (from TV) extract toHDMI audio output
- ☆ Supports CEC function and advanced EDIDmanagement

3. Package Contents

- ① 1× 18Gbps HDMI eARC Extractor
- ② 1× USB Cable (USB-A to Micro USB)
- ③ 1× User Manual

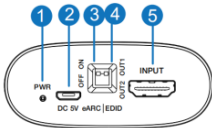
4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.3 / 1.x
Video Bandwidth	18 Gbps
Video Resolution	Up to 4k2k@60Hz 4:4:4
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
HDMI Audio Formats	PCM 2.0, LPCM 5.1 / 7.1, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS ES 6.1, DTS HRA, DTS HD Master, DTS:X
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)

Connection	
Input	1x HDMI Type A [19-pin female]
Output	2x HDMI Type A [19-pin female]
Mechanical	
Housing	Aluminum Enclosure
Color	Silver
Dimensions	65mm[W] x 70mm[D] x 27mm[H]
Weight	83g
Power Supply	USB 5V / 500mA
Power Consumption	1.75W (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

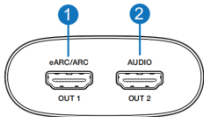
5.1 Left Panel



No.	Name	Function Description
1	Power LED	Red LED will be on when the device is powered on.
2	DC 5V	1) DC 5V power supply port; 2) Firmware update port
3	eARC switch	The switch is used to turn on/off the eARC function: Switch to the "ON" position, and the AUDIO OUT2 port will output the eARC/ARC audio; Switch to the "OFF" position, and the AUDIO OUT2 port will output the audio from HDMI IN port.
4	EDID switch	The switch is used to select the EDID setting: Switch to the "OUT1" / "OUT2" position, and the product will copy the corresponding EDID from the device connected to OUT1/ OUT2 port. If the copy fails, it will use the internal EDID of the default 1080p 2CH.

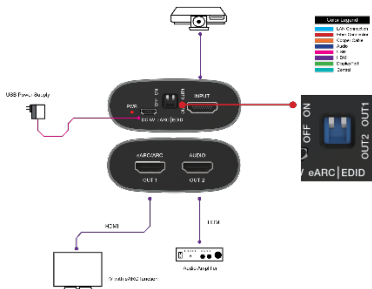
5	INPUT port	HDMI signal input port. Connect to HDMI source device.
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5.2 Right Panel



No.	Name	Function Description
1	eARC/ARC OUT 1	TV eARC/ARC audio output port. Connect to a TV with an eARC function.
2	AUDIO OUT2	HDMI Audio output port, connecting to amplifier or speaker. When the eARC function is enabled, this port outputs a 720p black screen, and the audio is extracted from the HDMI IN port; When the eARC function is disabled, this port outputs a 720p black screen, and the eARC audioreturned from the eARC/ARC OUT 1 port.

Mode 2: Ordinary Input Application



Q: Why can't I get any sound from AVR?

A: Please connect the OUT 2 port to the input port of AVR, not the output port. When using the ARC/eARC function, please turn the eARC switch to ON and leave the extractor input empty. Please turn the eARC switch to OFF when in a common input application.