



V1.0  
USER MANUAL



4K 60Hz HDMI eARC/ARC Audio Extractor

**JTD-3255 | JTECH-4KAE**

J-TECH DIGITAL INC.

9807 EMILY LANE

STAFFORD, TX 77477

TEL: 1-888-610-2818

E-MAIL: SUPPORT@JTECHDIGITAL.COM



Scan the QR code below or visit <https://www.jtechdigital.com/product/3255> to view and access detailed digital resources regarding this unit.



## Safety Instructions:

- Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:
- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

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## 1. Introduction

This 3D, 4K@60Hz HDMI audio extractor allows users to extract audio from a single HDMI input source device, and send it to an external audio system via Optical SPDIF and/or L/R outputs while passing the video to a display via HDMI output.

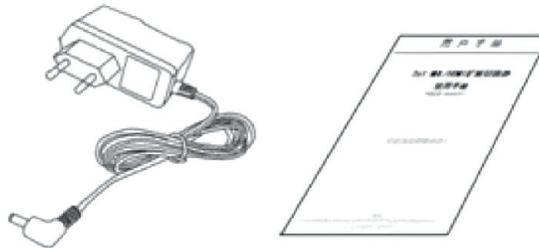
This audio extractor can be used in different environments, such as media/home theater rooms, conference rooms, school and presentation environments, and more.

## 2. Features

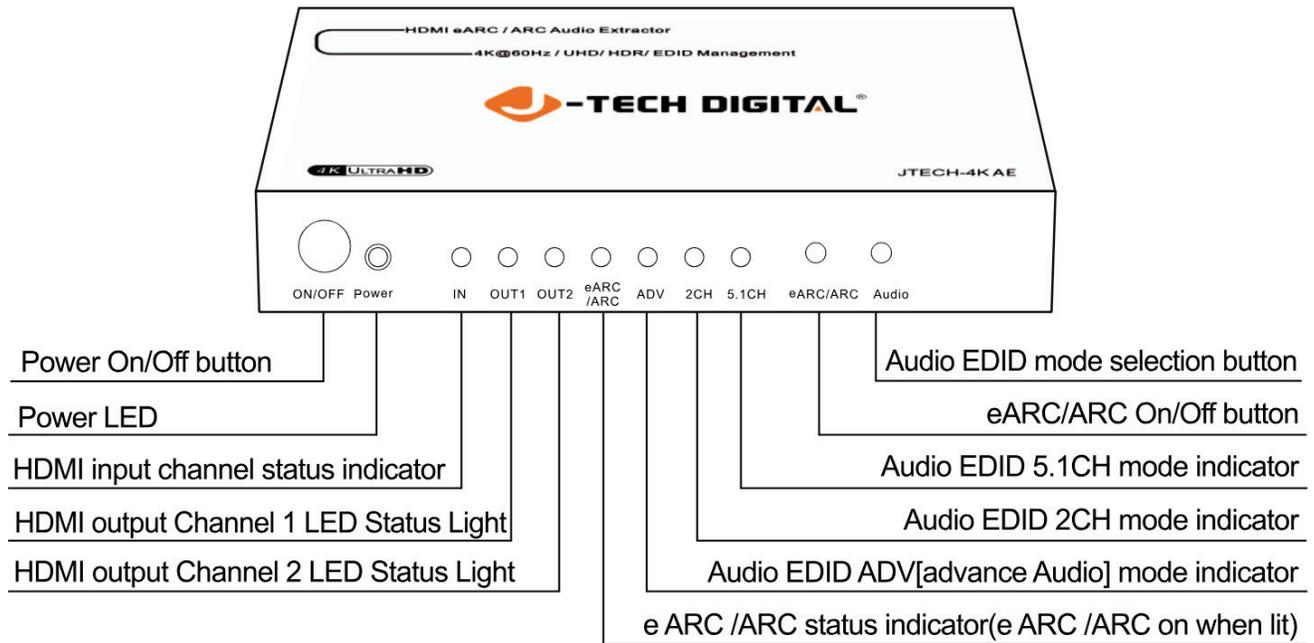
- Extracts audio from a single HDMI input and output via SPDIF and/or L/R out
- Supports up to 4K@60Hz resolution along with 3D
- Features 3 EDID settings; ADV/ 2.0CH / 5.1CH to help de-embed the optimal audio format for your application
- Features an LED indicator to show a working connection between source and display
- Powered via DC 5V/1A power adapter

## 3. Accessories Included

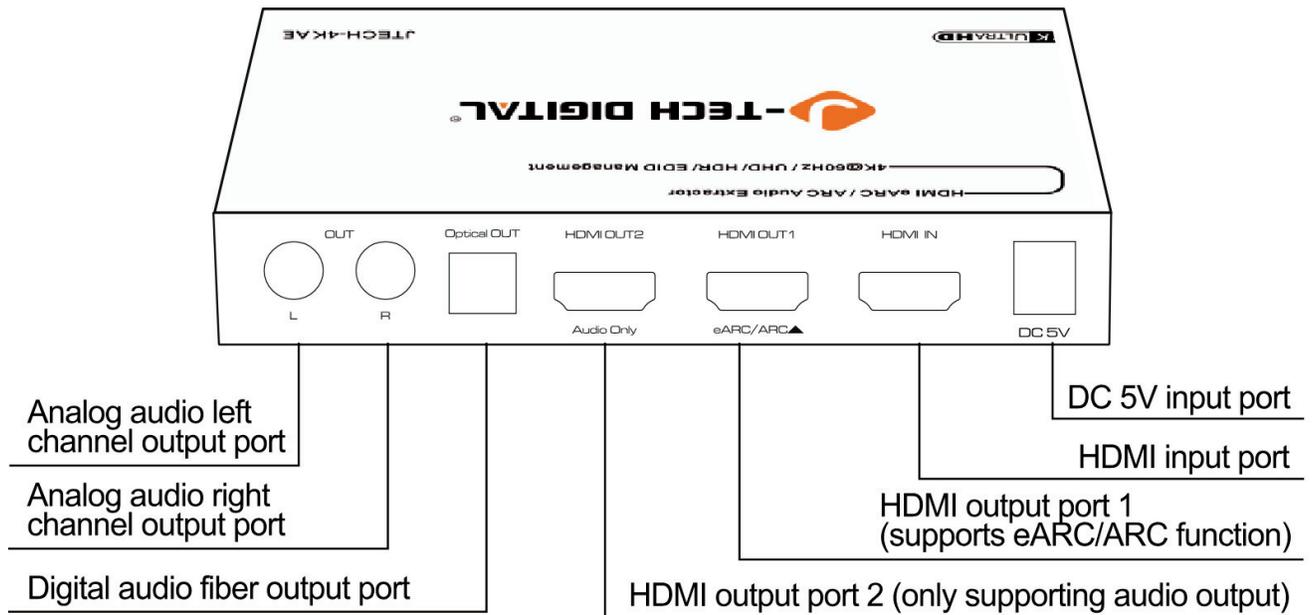
- 1 x 5V power adapter
- 1 x User Manual



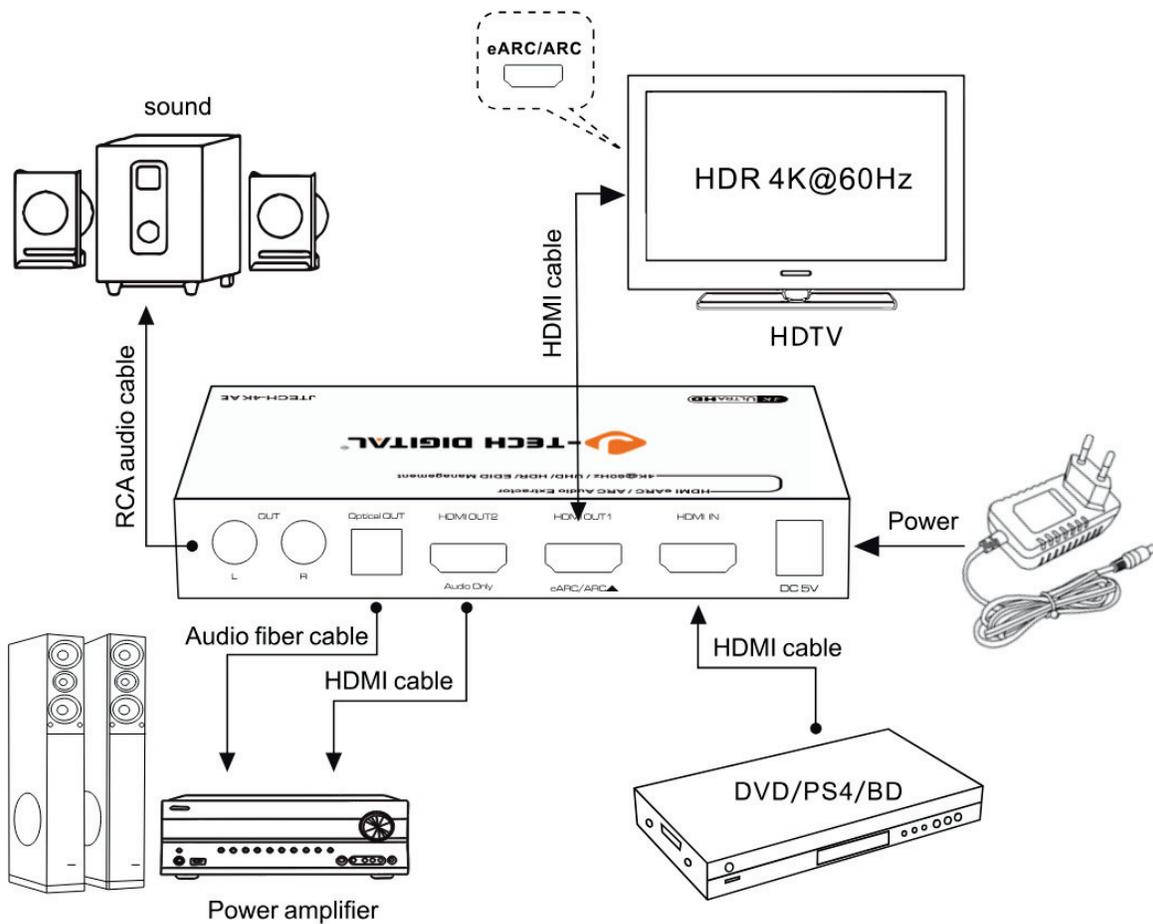
## 4. Front Panel Interface



## 5. Rear Panel Interface



## 6. Connection and Operation



\*Connect according to the connection method in the figure above; **Source → Display Device → Audio Output Device → Power**

## 7. Audio Mode Description

Audio Mode	Function
2Ch	Stereo Audio EDID Mode; all audio outputs will output stereo audio
5.1Ch	5.1Ch Audio EDID Mode; HDMI & Optical outputs will output 5.1 audio, while the L/R port will not output any audio
ADV	ADV EDID Mode; This mode is for pass-through. If the input HDMI signal is 7.1Ch, and the HDMI output is connected to a 7.1Ch receiver, the 7.1Ch audio will pass-through via the HDMI output, while the optical and L/R will not have any audio

## 8. eARC / ARC Function Description

eARC / ARC Button: Press this button to turn the eARC / ARC function On/Off. Once the button is pressed, the matching LED will turn on, indicating that the eARC / ARC function is turned on. Pressing it again will turn off the light, indicating that the eARC / ARC function is off.

When using eARC or ARC, connect HDMI output 1 to the HDMI input port (marked with eARC or ARC) on the display. When eARC / ARC is active, the corresponding LED indicator will illuminate, and audio returned via eARC / ARC will output from HDMI output 2 port, Optical port, and L/R port. The L/R port will output audio only if the eARC / ARC returned audio format is LPCM 2.0. The Optical port will output audio if the eARC / ARC returned audio format is LPCM 2.0, Dolby AC-3, or DTS 5.1. eARC supports a maximum of 7.1Ch audio return; if the eARC returned audio format is 7.1Ch, the L/R and Optical ports will not output audio, and HDMI output 2 port will output 7.1Ch audio.

If there is no audio after turning on eARC / ARC, please check whether CEC is enabled on your display, and if eARC or ARC is in an active state. Also, ensure that your HDMI cable is certified to support eARC or ARC. If the display settings and cables are correct, please try restarting the audio extractor.

## 9. Specifications

Model No.   JTD-ID	JTECH-4KAE   JTD-3255
Item Description	HDMI eARC / ARC Audio Extractor
Input Channel	HDMI Port x 1
Output Channel	HDMI Port x 2, RCA Port x 2, Optical Port x 1
eARC Features	Supported via Optical, L/R, HDMI Out 2
ARC Features	Supported via Optical, L/R, HDMI Out 2

Video Format	UHD, HDR, HLG, Dolby Vision
Resolution Format	480P, 720P, 1080P, 4K@30Hz, 4K@60Hz
Deep Color	8/10/12-bit @ 480P/720P/1080P, 8-bit@2160P
HDMI In / Out Supported Audio Format	Dolby HD, DTS HD, Dolby Atmos, Dolby AC3, DTS, LPCM etc.
Digital Audio Output Supported Audio Format	LPCM 2.0, DTS, Dolby-AC3
HDMI Input Cable Length	2160P/AWG 26 ≤ 3m 1080P/AWG 26 ≤ 10m
HDMI Output Cable Length	2160P/AWG 26 ≤ 3m 1080P/AWG 26 ≤ 10m
DAC Sample Frequency Range	32 ~ 192kHz
HDMI Transmission Bandwidth	25 ~ 600MHz
HDMI Transmission Rate	0.75 ~ 18Gbps
Power Adapter Specification	Input: AC 100~240V   Output: DC 5V/1A
Max Working Current	600mA
Working Temperature Range	0 ~ 40°C
Working Humidity Range	5 to 85% RH (No Condensation)
Storage Temperature	-15 ~ 55°C
Storage Humidity	5 ~ 95% RH (No Condensation)

Size	139 x 64.5 x 22.3 (mm)
Weight	225g
Accessories	Power Adapter, User Manual

## 10. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

## 11. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (1) Year”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

## 12. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

## 13. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis- adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

There are no express warranties except as listed under “Limited Warranty Coverage”. The warrantor is not liable for incidental or consequential damages resulting from the use of this product or arising out of any breach of this warranty. (As examples, this excludes damages for lost time, cost of having someone

remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive but are for illustration only). Parts and service, which are not covered by this limited warranty, are your responsibility.



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