

4K HDMI ARC Audio Decoder with Dolby & DTS Downmix

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1. Introduction

The HDMI ARC audio down-mixer extracts audio from an ARC-enabled HDTV and converts it to 2-channel analog stereo output for audio receivers, amplifiers, or headphones. It supports PCM 2.0, Dolby 5.1, and DTS 5.1 audio downmixing. CEC support allows the TV remote to control the volume.

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2. Features

- HDMI 1.3 compliant
- Input: HDMI ×1 — Output: 3.5mm L/R ×1, RCA ×2
- ARC enabled: Extract audio from ARC-enabled HDTV to analog stereo
- Support PCM 2.0, Dolby 5.1, DTS 5.1 audio downmix to 2-channel stereo
- CEC function — TV remote can control the volume

3. Package Contents

1× HDMI ARC Audio Down-Mixer • 1× USB Cable (USB-A to Micro USB) • 1× User Manual

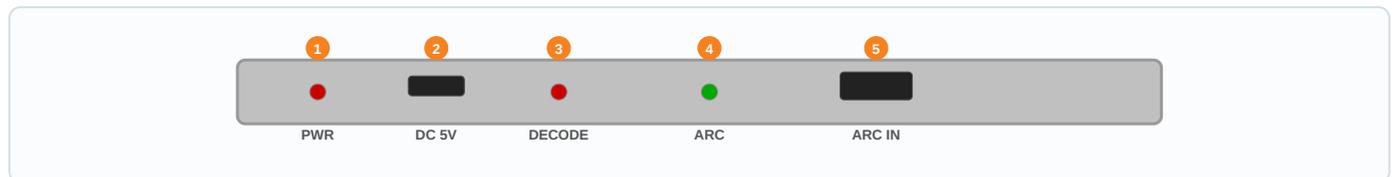


4. Specifications

Technical	
HDMI Compliance	HDMI 1.3 or above
Vmax	2 Vrms
S/N Ratio	>90 dB
THD+N	<0.1% (Vmax) / 0.001%–0.01% (Vbest)
Crosstalk	>80 dB
Frequency Response	20 Hz – 20 kHz ±1 dB
HDMI Audio Formats	PCM 2.0, Dolby 5.1, DTS 5.1
L/R Audio Formats	Analog Stereo 2CH
ESD Protection	±8kV (air-gap) / ±4kV (contact)
Connection	
Inputs	1× HDMI Type A [19-pin female], 1× Micro USB
Outputs	1× 3.5mm Stereo Jack, 1× L/R Audio Out [RCA]
Mechanical	
Housing	Aluminum Enclosure, Silver
Dimensions	70mm (W) × 65mm (D) × 27mm (H)
Weight	80g
Power	USB 5V/500mA — 0.86W max
Operating Temp	0°C – 40°C / 32°F – 104°F
Storage Temp	-20°C – 60°C / -4°F – 140°F
Humidity	20–90% RH (no condensation)

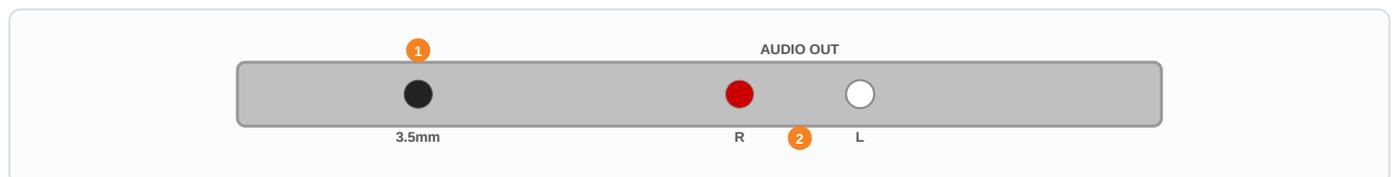
5. Operation Controls & Functions

5.1 Left Panel



NO.	NAME	FUNCTION DESCRIPTION
1	Power LED	Red LED illuminates when powered on.
2	DC 5V	Micro USB power port. Connect to any USB 5V source.
3	Audio Decoding LED	Red solid: PCM/no signal. Red blink: Dolby. Green blink: DTS.
4	ARC LED	On: active ARC signal. Off: no signal.
5	ARC IN	HDMI Type A input. Connect to TV ARC port.

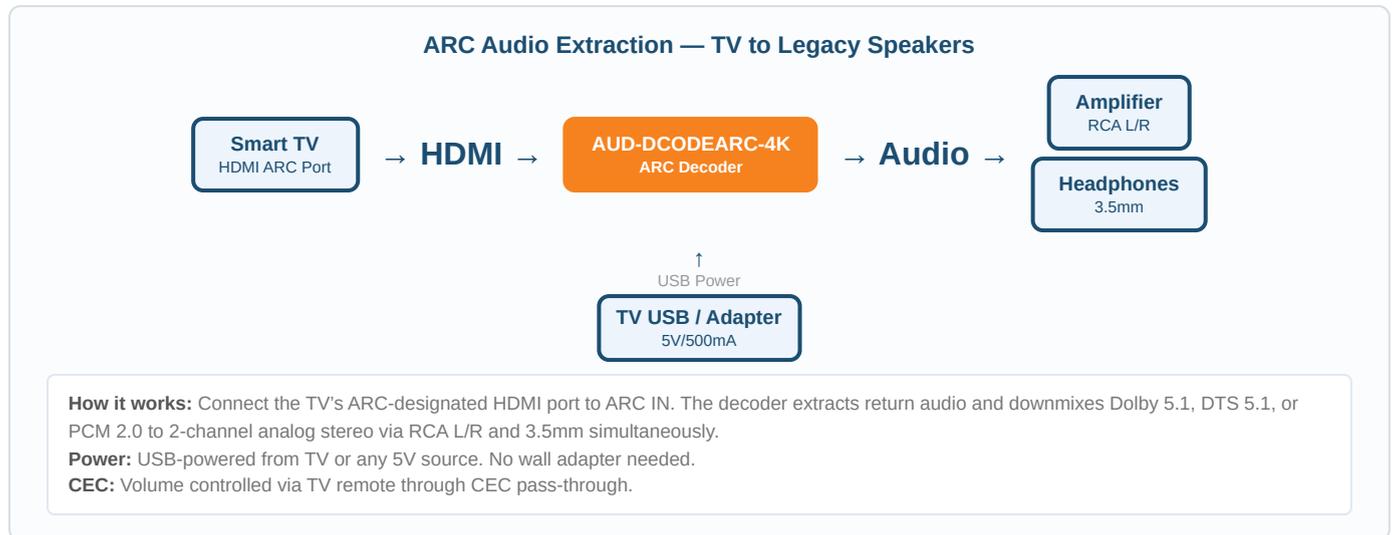
5.2 Right Panel



NO.	NAME	FUNCTION DESCRIPTION
1	Stereo AUDIO OUT	3.5mm stereo output. Connect to headphones or amplifier.
2	RCA AUDIO OUT	RCA L/R output. Connect to amplifier or powered speakers.



6. Application Example



7. Troubleshooting

Q: No audio output from the device?

A: Verify ARC is enabled in TV settings (Sound > Audio Output). Ensure HDMI cable is in the TV's ARC-designated port. Check USB power and PWR LED.

Q: Audio format LED shows solid red but no sound?

A: Solid red = PCM or no signal. Set TV audio output to PCM to test. If sound works in PCM, the TV may not be sending Dolby/DTS over ARC.

Q: Can I use any HDMI port on the TV?

A: No. Only the port labeled "ARC" sends return audio. Typically HDMI 1 or HDMI 2.

Q: CEC volume control not working?

A: Enable CEC in TV settings (Anynet+, BRAVIA Sync, SimpLink, etc.). Try a different HDMI cable.

8. Warranty

KanexPro warrants that its products will perform in accordance with the accompanying written materials for a period of one (1) year from the date of original purchase. Visit kanexpro.com for full warranty details.

