

4K HDMI Audio Decoder & Down Mixer with Dolby/DTS

Decode & Down-Mix Dolby/DTS Bitstream to Analog Stereo — 18Gbps 4K60 4:4:4 HDR Pass-Through with Optical & RCA Output
MPN: AUD-DCODEHDMI-4K



1 PRODUCT OVERVIEW

DESIGNED FOR

Home theater enthusiasts, AV integrators, and commercial installers who need to extract and decode HDMI audio for legacy amplifiers, distributed audio systems, or powered speakers that lack HDMI inputs.

THE CHALLENGE

Modern HDMI sources output surround audio in Dolby/DTS bitstream formats that cannot be played on analog speakers or optical-only soundbars without decoding. Basic extractors pass the bitstream through but don't convert it — leaving users with silence on analog outputs.

THE KANEXPRO ADVANTAGE

The AUD-DCODEHDMI-4K decodes Dolby/DTS bitstream and down-mixes it to 2CH analog stereo in hardware — not just pass-through. Combined with full 4K60 4:4:4 HDR video pass-through and a 3-position audio mode switch, it eliminates the need for an external AV receiver.

2 PRODUCT POSITIONING

For integrators and home theater owners who need reliable audio from HDMI sources without an AV receiver, the AUD-DCODEHDMI-4K is a compact decoder that extracts and down-mixes Dolby/DTS bitstream to analog stereo and optical output — unlike passive extractors, it decodes in hardware, ensuring audio reaches any speaker system.

3 APPLICATIONS

Home Theater

Extract surround sound from Blu-ray or streaming to a legacy receiver or soundbar via optical or analog output.

Commercial Display

Route HDMI from a media player to a display while sending decoded stereo to ceiling speakers or distributed audio.

Conference Room

Break out audio from HDMI laptop feed to an external DSP or tabletop speaker while maintaining 4K video.

House of Worship

Extract audio from HDMI video feed for the house PA or recording console without a separate audio run.

4 WHO THIS IS FOR

Home Theater Owners

AV Integrators

IT Managers

Commercial Installers

Digital Signage

Education

Ideal User

Home theater owner upgrading source devices but keeping a legacy audio system; AV integrator solving audio routing on a commercial project.

Project Types

Residential, hospitality, corporate AV, education, house of worship, digital signage.

Typical Buyer

Consumer (self-purchase), AV integrator (spec'd into project BOM), IT/facilities manager (conference room refresh).

5 KANEXPRO PRODUCT COMPARISON

KanexPro offers several audio extraction and decoding products. Choose the right one based on your signal source and audio needs:

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
AUD-DCODEHDMI-4K	HDMI source decode	Dolby/DTS decode + down-mix to analog stereo	Decodes bitstream in hardware — analog output works with encoded sources
HAECOAX3	HDMI audio pass-through	Extracts audio to optical + coax — no decode	Pass-through only; no down-mix — analog silent on encoded sources
AUD-DEBEDEARC-4K	eARC/ARC from TV	Extracts eARC/ARC to optical + RCA	Extracts from TV return channel, not from HDMI source input
AUD-DCODEARC-4K	ARC decode to stereo	Decodes ARC audio to analog stereo	ARC input only — no HDMI source input or 4K video pass-through

Choose AUD-DCODEHDMI-4K when you need decoded analog audio from an HDMI source device (Blu-ray, streaming box, console).

6 FREQUENTLY ASKED QUESTIONS

Q: Does this decode Dolby Atmos to stereo?

Dolby Atmos is passed through on HDMI output. The analog L/R output receives a down-mixed 2CH stereo signal from Dolby or DTS bitstreams in 2CH mode.

Q: Can I use this with a soundbar that only has optical input?

Yes — connect source to HDMI IN, display to HDMI OUT, and TOSLINK from OPTICAL OUT to the soundbar. Set switch to Bitstream for up to 5.1CH.

Q: Does it support ARC or eARC from a TV?

No. This unit extracts audio from an HDMI source device. For ARC/eARC, use the AUD-DEBEDEARC-4K or AUD-DCODEARC-4K.

Q: What does the front-panel switch do?

TV copies the display EDID. Bitstream outputs multichannel on optical. 2CH decodes and down-mixes to PCM stereo for the analog RCA output.