

4x2 HDMI 2.0 Matrix Switcher with Optical & Analog Audio Extraction

ARC, 4K to 1080p Downscaling & Dolby Vision — 4 Inputs to 2 Displays

MPN: HDMX42A-18G



Most 4x2 HDMI matrix switchers route video without addressing the audio — leaving integrators to add separate audio extractors for every zone. The KanexPro HDMX42A-18G routes any of four 18Gbps HDMI sources to two independent displays while simultaneously extracting audio via optical Toslink and analog L/R outputs — no external extractors required.

Supports 4K@60Hz 4:4:4 with Dolby Vision, HDR10+, and HLG. Per-output 4K → 1080p downscaling. ARC extracts TV return audio to the optical output.

1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators and home theater installers deploying 4-source, 2-display environments where audio extraction to external speakers or amplifiers is required at every output.

THE CHALLENGE

Standard 4x2 matrices route video only — leaving integrators to add a separate optical or analog audio extractor per zone, adding cost and complexity to simple installs.

THE KANEXPRO ADVANTAGE

Simultaneous optical Toslink + analog L/R extraction from both outputs at \$299.95 — no external extractors, ARC built in, Dolby Vision and HDR10+ pass-through.

2 PRODUCT POSITIONING

HDMX42A-18G is the 4x2 HDMI matrix for integrators who need audio extraction at every output without sourcing separate extractor hardware for each zone.

3 SALES ANALYSIS

CHANNEL FIT

Online reseller (primary): Amazon, B&H, Adorama. AV distribution (secondary): CEDIA channel, small commercial AV dealers.

DEAL SIZE & SALES CYCLE

\$299.95 per unit. Fast 1–2 week cycle. Often sold with optical cable and speaker system.

COMMON OBJECTIONS

1. "AV Access has ARC + SPDIF" — HDMX42A-18G adds simultaneous analog L/R + Dolby Vision + HDR10+. 2. "No RS-232?" — front panel + IR covers 4×2. 3. "Only 2 outputs?" — specify HDMX44A-18G for 4.

WIN / LOSS THEMES

WIN: Dual-format audio (optical + analog) both active simultaneously; ARC; Dolby Vision + HDR10+. LOSS: No RS-232/WebGUI; 2 outputs only.

TOP USE CASES TO CLOSE

- 1 Home theater: Blu-ray, Apple TV, cable, gaming to TV + projector — optical to AV receiver, analog L/R to second zone — eliminates two separate extractors from BOM.
- 2 Conference room with ARC display: Teams/Zoom audio extracts automatically to room PA via ARC — zero additional hardware, strong close rate on education and hospitality.

4 APPLICATIONS



Home Theater

Blu-ray, Apple TV, cable, gaming to 2 displays — extract audio to AV receiver via optical Toslink, no separate extractor needed.



Conference Room

Laptop, VC, cable, and AV to 2 room displays. Extract audio to room DSP or PA via optical output.



Classroom

PC, doc cam, streaming to 2 displays with PA audio extraction via analog L/R.



Hospitality

4 IPTV/streaming sources to 2 guestroom TVs. ARC extracts TV audio to room sound system.



Multi-Zone Audio

Optical feeds digital amplifier while analog L/R feeds powered speakers — two audio zones from one matrix output.



Retail & Lobby Signage

Drive 2 display zones from 4 sources with per-output downscaling and analog audio to a lobby speaker.

5 WHO THIS IS FOR

AV Integrator

Home Theater

Hospitality

Education

Conference Room

Ideal User

Residential or light-commercial AV integrator handling home theater, hospitality, and conference room installs.

Project Types

Home Theater, Hospitality, Education (classrooms, training rooms), Conference Rooms, Retail Signage with audio.

Typical Buyer

AV Integrator or homeowner specifies. Fast decision cycle. Often impulse purchase on Amazon or B&H.

6 KANEXPRO PRODUCT COMPARISON

The HDMX42A-18G is KanexPro's audio-extraction 4×2 matrix.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
HDMX42A-18G	Audio-extraction 4×2	Optical + analog L/R, ARC, Dolby Vision, 4K → 1080p	This product — audio-complete 4×2
HDMX42-18G	IP-control 4×2	WebGUI, Telnet, RS-232, Apple HDCP	Step across: IP control instead of audio extraction
HDMX44A-18G	4-zone matrix + DAC audio	4×4, per-output 3.5mm DAC, WebGUI	Step up: 4 outputs with per-zone analog audio

✦ **Recommend HDMX42A-18G for 2-zone optical + analog audio extraction from 4 sources at the lowest cost.**

7 FREQUENTLY ASKED QUESTIONS

Can optical and analog L/R be active simultaneously?

Yes. Both optical Toslink and analog L/R are active when ARC is off. When ARC is enabled, optical carries ARC return audio and analog L/R mutes.

Which output does audio extract from?

Press the AUDIO button to select Out A or Out B. The selected output's source feeds both optical and analog L/R outputs.

Does ARC work with any TV?

Yes, with any ARC-enabled TV. Enable the ARC button on the front panel, connect HDMI Out to the TV's ARC port, and enable ARC/CEC in TV settings.

What audio formats does the optical output support?

PCM 2.0, Dolby Digital/Plus, and DTS. Multi-channel HD bitstream passes through HDMI only.

Does it support auto-switching?

Yes. Hold OUT A or OUT B for 3 seconds to enable AUTO mode — auto-selects the last connected input source.

Is there RS-232 control?

No. Control is via front panel and IR. For RS-232 + WebGUI on a 4×2, specify HDMX42-18G.

How does EDID management work?

3-position rear DIP switch: AUTO (best common EDID from both displays), COPY (Out A EDID to all inputs), STD (default 1080p).