

18Gbps 8×8 HDMI Matrix with ARC Function

4K60 4:4:4 Matrix Switcher with Independent Audio De-embedding & ARC

MPN: MMX-8X8AUD



Centralized 4K60 HDMI switching with integrated audio management for multi-display environments. The KanexPro MMX-8X8AUD routes up to eight 18Gbps HDMI sources to eight independent displays at resolutions up to 4K2K@60Hz 4:4:4, with Dolby Vision, HDR10+, and HLG pass-through preserved end-to-end across every output.

Each output provides independent audio de-embedding via both analog (3.5mm) and coaxial (RCA) ports, while per-output ARC support extracts return audio from connected displays. A built-in 4K → 1080p downscaler operates independently on each output, enabling mixed-resolution environments from a single matrix. Control options include front panel buttons with OLED display, IR remote, RS-232, TCP/IP, and a full-featured Web GUI with scene presets.

1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators and consultants deploying multi-source, multi-display environments in corporate AV, hospitality, broadcast, education, and control room applications where audio routing is required at every display output.

THE CHALLENGE

Most 8×8 HDMI matrices provide video routing without integrated audio management, forcing integrators to source and rack external audio extractors for every output — adding cost, complexity, and failure points.

THE KANEXPRO ADVANTAGE

Independent audio de-embedding on all eight outputs via both analog (3.5mm) and coaxial (RCA) plus per-output ARC and per-output 4K → 1080p downscaling in a 1U unit at \$999.95.

2 PRODUCT POSITIONING

MMX-8X8AUD is the 8×8 HDMI matrix for AV integrators who need complete audio routing at every output without sourcing external extractors or separate scalars.

3 SALES ANALYSIS

CHANNEL FIT

AV distribution (primary): WAVE Electronics, BCD, Stampede.
Rep/VAR (secondary): regional AV reps, CEDIA integrators.
Direct: large corporate/government bids.

DEAL SIZE & SALES CYCLE

\$999.95–\$4,000 per unit. Often sold with cables, racks, and control systems.

COMMON OBJECTIONS

1. "Why not HDBaseT?" — HDMI-native within 16 ft saves cost.
2. "Competitors offer more?" — BZBGear 8K costs 3×; J-Tech lacks dual de-embed.
3. "Control system compatible?" — RS-232, TCP/IP, Web GUI.

WIN / LOSS THEMES

WIN: Audio-complete at sub-\$1K; per-output downscaler; strong EDID. LOSS: No HDBaseT built-in; 16 ft 4K60 cable limit.

TOP USE CASES TO CLOSE

- 1 Corporate boardroom renovation: spec per-output audio de-embedding to eliminate 8 separate extractors — immediate BOM reduction and single-device control story closes deals against BZBGear and J-Tech.
- 2 Hospitality AV refresh: ARC support extracts TV return audio for house audio system — replaces an add-on ARC extractor on every display zone, compelling for property managers focused on simplified operations.

4 APPLICATIONS



Corporate Boardroom & Conference

Route eight presentation and video-conferencing sources to eight independent meeting room displays, with per-output audio de-embedding to room speakers or DSP — no external extractors needed.



Hospitality & Hotel AV

Centrally distribute IPTV, streaming, and satellite feeds across guestroom and common area displays. ARC support extracts return audio from smart TVs directly to the house audio system.



Higher Education & Lecture Distribution

Connect eight sources to eight classroom or auditorium displays, with independent audio routing to zone amplifiers via coaxial or analog outputs.



Broadcast & Production Monitoring

Feed eight camera or playout sources to eight preview monitors in an edit suite or master control, with coaxial audio extraction on every channel.



Control Room & NOC

Route operational data feeds and camera streams to eight analyst workstations with isolated audio de-embedding per operator position.



Multi-Zone Digital Signage

Distribute eight content channels to eight display zones in retail, transportation, or corporate lobbies with zone-specific audio extraction.

5 WHO THIS IS FOR

AV Integrator

Corporate AV

Hospitality

Education

Broadcast

Control Room

Ideal User

Mid-to-senior AV systems integrator or consultant with 3–15 years commercial AV experience. Specifies matrix switchers for multi-display installs and manages BOMs for bids.

Project Types

Corporate AV (conference rooms, boardrooms), Hospitality (hotels, restaurants), Higher Education (lecture halls), Broadcast/Production, Government/NOC, Digital Signage.

Typical Buyer

AV Systems Designer or Lead Integrator specifies; IT/Facilities Director signs off. AV consultant on larger projects.

KanexPro offers a tiered matrix line. The MMX-8X8AUD is positioned in the mid-range with audio-complete 8×8 routing at a competitive price point.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
MMX-8X8AUD	8-zone audio-complete matrix	Dual de-embed (analog + coax) + ARC + per-output downscaler all 8	This product — best value for audio-complete 8×8
MMX-16X16AUD	16-zone large-venue matrix	16 coaxial de-embed outputs, 16×16 routing, 1U rack	Scale up for 16-display environments; coax de-embed only (no 3.5mm)
SP-HDMI2X4-8K	8K 2-input splitter/matrix	48Gbps, 2×4 routing, independent downscaling	Upgrade path for 8K signal distribution; 2-input only

✦ Recommend MMX-8X8AUD when the install needs 8 outputs with both analog and coaxial audio at every zone.

Does every output have both analog and coaxial audio de-embedding?

Yes. All eight outputs provide simultaneous 3.5mm analog L/R and RCA coaxial extraction — independently routed per output.

Can I run 4K sources to 1080p displays on some outputs?

Yes. The built-in per-output downscaler converts 4K signals to 1080p independently on each output — mixed-resolution deployments supported with no additional hardware.

What control systems are compatible?

RS-232 and TCP/IP command sets available for Crestron, AMX, Lutron, RTI, and other third-party control platforms. Web GUI for standalone operation.

Is HDCP 2.2 supported on all inputs and outputs?

Yes. Fully HDCP 2.2 and HDCP 1.4 compliant on all ports.

How does this compare to competitors at a similar price?

At \$999.95, the MMX-8X8AUD includes both analog and coaxial de-embedding on all 8 outputs — competitors at this price typically offer only one format or require separate per-output extractors.

Does it support Dolby Atmos and DTS:X pass-through?

Yes — HDMI outputs pass Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio, and DTS:X. Coaxial de-embedded outputs carry LPCM 2.0, Dolby Digital/DD+, and DTS 5.1.

How does ARC work on this matrix?

Connect the matrix HDMI output to the ARC port on any ARC-enabled display. The matrix extracts the ARC audio stream and routes it to the coaxial output for that channel.