

4K 4×4 Seamless Matrix & Video Wall Processor

Route Any Source to Any Display or Build a 2×2–4×1 Video Wall — No Extra Hardware

MPN: MMX-4X4VW



Most 4×4 matrix installations require a separate video wall processor — adding cost, rack space, and a second device to configure and control. The KanexPro MMX-4X4VW eliminates that by combining true 4×4 HDMI matrix switching with an integrated video wall processor in a compact half-rack unit, letting integrators route any of four sources to any of four displays while composing 2×2, 4×1, or 1×4 video wall layouts from a single device.

Seamless switching with no delay or image loss keeps transitions clean in live environments. Independent output scaling on all four channels ensures compatibility across mixed-resolution display installations without additional scalers. Control is straightforward — front panel buttons, IR remote, or RS-232 — making the MMX-4X4VW equally at home in a classroom, retail signage deployment, small boardroom, or hospitality venue where simplicity matters.

1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators deploying compact multi-display installations in retail, corporate, hospitality, and education where both matrix switching and video wall are required on a budget-conscious project.

THE CHALLENGE

Small-to-mid video wall projects require both a matrix switcher and a video wall processor — two separate devices adding cost and complexity to simple installs.

THE KANEXPRO ADVANTAGE

Single half-rack unit combines true 4×4 seamless matrix switching with integrated 2×2/4×1/1×4 video wall at \$199.95 — OREI (\$299–\$349) and BZBGear (\$279–\$349) are 40–75% more.

2 PRODUCT POSITIONING

MMX-4X4VW is the 4×4 matrix + video wall processor for integrators who need to eliminate the second device from compact multi-display installs without sacrificing seamless switching or professional control.

3 SALES ANALYSIS

CHANNEL FIT

Online reseller (primary): Amazon, B&H, Adorama. AV distribution (secondary): CEDIA reps, small commercial AV dealers. Direct: hospitality/retail chain deployments.

DEAL SIZE & SALES CYCLE

\$199.95–\$800 per project (1–4 units). Strong repeat potential for chain accounts.

COMMON OBJECTIONS

1. "No TCP/IP/Web GUI?" — RS-232 covers third-party control; IR for standalone. 2. "HDMI 1.4b only?" — 4K@30Hz is standard for signage; saves \$100+ per unit. 3. "Fewer video wall modes?" — 2×2/4×1/1×4 covers 90%+ of compact installs.

WIN / LOSS THEMES

WIN: Lowest price in class; half-rack form factor; seamless switching; RS-232; triple certified. LOSS: HDMI 1.4b (not 2.0b); no analog audio de-embed; no TCP/IP or Web GUI.

TOP USE CASES TO CLOSE

- 1 Retail chain deployment (20+ locations): at \$199.95 vs. OREI \$299–\$349, saves \$2,000–\$3,000 in hardware cost per 20-location chain — covers 2×2 video wall and 4-zone matrix at every site with RS-232 automation integration.
- 2 Small boardroom with occasional 2×2 video wall use: integrator specs a single half-rack unit handling daily matrix switching and converting to impact display for presentations — client pays for one device instead of two.

4 APPLICATIONS



Retail Digital Signage

Build a 2×2 product showcase wall from a single device, switching between four content feeds without additional hardware or complex configuration.



Corporate Lobby Video Wall

Create a 2×2 or 4×1 display wall for corporate branding and communications with seamless switching between live news, brand content, and announcements.



Classroom & Training Room

Route PC, laptop, document camera, and streaming device to four room displays or configure a 2×2 video wall for group viewing from the same device.



Restaurant & Sports Bar

Drive four individual screens or a 4×1/2×2 sports wall from four inputs, switching between games and channels instantly with no black screen during live events.



Small Boardroom & Huddle Space

Four presentation sources routed to four displays or collapsed into a 2×2 video wall for impact presentations in compact half-rack form factor.



Hospitality Event Space

Configure a lobby or banquet room video wall without additional processors, switching between pre-event and live event content across 2×2 and 4×1 layouts.

5 WHO THIS IS FOR

AV Integrator

Retail

Hospitality

Education

Small Business

Digital Signage

Ideal User

Commercial AV integrator or IT Manager handling smaller commercial installs. Price-conscious, values simplicity and fast deployment.

Project Types

Retail (chain stores, showrooms), Hospitality (restaurants, bars, hotels), Small Corporate (boardrooms, huddle spaces), Education (training rooms), Digital Signage (lobby, waiting area).

Typical Buyer

AV Integrator or IT Manager specifies and purchases. Store Manager, IT Director, or Facilities Coordinator approves budget.

6 KANEXPRO PRODUCT COMPARISON

The MMX-4X4VW is KanexPro's entry-level matrix/video wall combo. Compare it against the broader line to select the right tier for each project.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
MMX-4X4VW	Compact 4-zone installs + video wall	4x4 seamless matrix + 2x2/4x1/1x4 VW in half-rack unit	This product — lowest cost, dual function, small footprint
MMX-8X8AUD	8-zone audio-complete matrix	8x8, dual audio de-embed, ARC, per-output downscaler	Scale up to 8 zones with full audio management; no VW mode
MMX-16X16AUD	16-zone large-venue matrix	16x16, coaxial de-embed, ARC, 1U rack	Large campus/enterprise; audio-complete; no VW mode

✦ Recommend MMX-4X4VW when the project needs both matrix switching and video wall in a single device under \$200.

7 FREQUENTLY ASKED QUESTIONS

Can it switch between matrix mode and video wall mode?

Yes. Operates in either 4x4 seamless matrix or video wall mode (2x2, 4x1, 1x4) — selectable via front panel, IR, or RS-232 command.

Is switching truly seamless — no black screen?

Yes. Hardware-implemented seamless switching with no signal interruption or black frame on source transitions.

Does it support RS-232 control system integration?

Yes. 3-pin phoenix RS-232 connector for Crestron, AMX, RTI, and other third-party control systems. USB-C service port for firmware updates only.

Is analog audio de-embedding available?

Audio pass-through via HDMI is supported. Dedicated analog extraction ports are not on this model — see MMX-8X8AUD for per-output audio de-embedding.

What certifications does it have?

CE, FCC, and UL certifications — covering US, Canada, and European regulatory requirements.

How does this compare to the OREI UHDS-404VW?

OREI adds HDMI 2.0b and Web GUI but is \$100–150 more. MMX-4X4VW covers 2x2/4x1/1x4 modes in the majority of compact installs at a lower per-site cost — especially compelling for chain deployments.

What is the form factor?

Compact half-rack unit: 220x105x19mm, 508g. Fits in standard AV furniture and shallow rack enclosures.