

48Gbps 8K 2×4 HDMI Matrix Splitter with Downscaling & Audio De-Embedding

HDCP 2.3, HDR → SDR, Optical + Analog Audio, RS-232/IR/API, EDID DIP

MPN: SP-HDMI2X4-8K



APPROVED OVERVIEW

Route two HDMI 2.1 sources to four displays at up to 8K@60Hz with per-output downscaling, HDR → SDR conversion, and dual audio de-embedding. The SP-HDMI2X4-8K combines 2-source switching with 4 independently scaled outputs. Each output downscalls 8K → 4K/2K and converts HDR → SDR automatically for mixed-resolution display environments.

48Gbps, HDMI 2.1, HDCP 2.3. HDR10/HDR10+/Dolby Vision/HLG, ALLM, VRR. Audio: Dolby Atmos, DTS-HD MA via HDMI; optical S/PDIF (5.1CH) + balanced/unbalanced analog (PCM 2CH, 99dB S/N). 16-preset EDID DIP + API. RS-232 + IR + USB-C. Signal generator. Metal 220 × 110 × 21.5 mm, 620 g, 6.24W.

1 PRODUCT OVERVIEW

DESIGNED FOR

AV integrators deploying 2-source, 4-display mixed-resolution environments with audio.

THE CHALLENGE

Routing two 8K sources to four displays at different resolutions with audio breakout.

THE KANEXPRO ADVANTAGE

2×4 matrix + per-output downscaling + HDR → SDR + optical/analog audio + RS-232/API.

2 PRODUCT POSITIONING

The compact 8K 2×4 matrix that replaces a switcher + DA + scaler + audio extractor at the price of a basic splitter.

3 APPLICATIONS

Conference Room

Two presenter laptops to four displays. RS-232/API for room control system integration.

Digital Signage

Two content feeds to four mixed-resolution screens. Per-output downscaling handles mixed fleets.

Home Theater

Blu-ray + game console to four TVs. HDR → SDR for legacy displays; optical to AVR.

Education

Two instructor sources to four classroom screens. Signal generator verifies installations.

Houses of Worship

Two camera feeds to four sanctuary/lobby displays. Balanced analog to mixing console.

Broadcast

Two playback sources to four QC monitors at mixed resolutions.

4 WHO THIS IS FOR

Corporate AV

Digital Signage

Home Theater

Education

Worship

Broadcast

Ideal User

AV integrator

Project Types

Corporate, signage, education, worship, broadcast

Typical Buyer

AV integrator / IT lead

5 KANEXPRO PRODUCT COMPARISON

The SP-HDMI2X4-8K is a 2-input matrix with per-output downscaling and audio.

MODEL	BEST FOR	KEY CAPABILITY	HOW IT DIFFERS
SP-HDMI2X4-8K	8K 2×4 matrix	48Gbps, downscale, HDR → SDR, audio, RS-232	This product
SP-HDMI2X8-8K	8K 2×8 matrix	Same features, 8 outputs	~\$280
SP-HD1X48K	8K 1×4 splitter	48Gbps, downscale, 1 input only, no audio	~\$120

Choose SP-HDMI2X4-8K for 2-source matrix distribution with downscaling and audio.

6 FREQUENTLY ASKED QUESTIONS

Q: Per-output downscaling?

Yes. Auto, bypass, or force 1080p per output.

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