

# 48Gbps 8K 2x4 HDMI Matrix Splitter with Independent Downscaling & Audio De-embedding

Switch 2 HDMI Inputs to 4 Screens with Auto-Scaling Video & Balanced/Digital Audio Breakout

MPN: SP-HDMI2X4-8K



Switch two HDMI 2.1 sources to four displays at up to 8K@60Hz with independent downscaling and audio de-embedding on every output. The KanexPro SP-HDMI2X4-8K is a 48Gbps 2x4 HDMI matrix splitter that routes two sources to four screens — eliminating the need for a separate switcher, downscaler, or audio extractor in the rack.

Compliant with HDMI 2.1 and HDCP 2.3, the matrix splitter supports 8K@60Hz 4:2:0 12-bit, 8K@30Hz 4:4:4 12-bit, and 4K@120Hz 4:4:4 12-bit with HDR10, HDR10+, Dolby Vision, HLG, and ALLM/VRR pass-through. Each output independently downscals 8K to 4K or 2K and converts HDR to SDR for mixed-resolution display environments. Audio de-embedding delivers digital optical (up to 5.1CH) and balanced/unbalanced analog stereo with adjustable gain. A built-in HDMI signal generator aids diagnostics. Control via front panel, IR remote, RS-232, or API commands.

<p><b>8K60</b> 48 Gbps HDMI 2.1</p>	<p><b>2x4</b> Matrix Splitter</p>	<p><b>Downscale</b> Per-Output 8K → 4K/2K</p>	<p><b>Audio</b> Balanced &amp; Optical De-embed</p>	<p><b>Control</b> RS-232 / IR API</p>
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## KEY FEATURES

- Routes 2 HDMI 2.1 sources to 4 displays at up to 8K@60Hz 4:2:0 12-bit with 48Gbps bandwidth — auto or manual input switching
- HDCP 2.3 compliant with HDMI 2.1 — supports protected content across all input and output channels
- HDR10, HDR10+, Dolby Vision, HLG pass-through with ALLM and VRR for low-latency gaming and cinematic playback
- Independent 8K → 4K/2K downscaling on each output — feed mixed-resolution displays from a single source without manual reconfiguration
- Per-output HDR → SDR conversion preserves contrast and detail on non-HDR legacy displays
- Audio de-embedding via digital optical (up to 5.1CH Dolby/DTS) and balanced/unbalanced analog stereo (L/R) with adjustable gain control
- Built-in HDMI signal generator with 15 resolutions and 13 test patterns for on-site diagnostics and cable verification
- Control via front panel buttons, IR remote, RS-232, and API commands — advanced EDID management with 16 presets, 2 user-defined, and pass-through mode

## SPECIFICATIONS

<b>HDMI / HDCP</b>	HDMI 2.1 • HDCP 2.3
<b>Video Bandwidth</b>	48 Gbps
<b>Video Resolution</b>	Up to 8K@60Hz 4:2:0 12-bit, 8K@30Hz 4:4:4 12-bit, 4K@120Hz 4:4:4 12-bit
<b>HDR Formats</b>	HDR • HDR10 • HDR10+ • Dolby Vision • HLG
<b>Gaming Features</b>	ALLM • VRR
<b>Audio (Pass-through)</b>	LPCM, DD/DD+, TrueHD, Atmos, DTS, DTS-HD MA, DSD
<b>Audio (De-embed)</b>	Optical: 5.1CH • Analog L/R: 2CH balanced/unbalanced
<b>HDMI I/O</b>	2x HDMI In • 4x HDMI Out • 1x Optical • 1x Analog L/R
<b>Control</b>	Front Panel • IR Remote • RS-232 • API • USB-C Service
<b>Enclosure</b>	Metal, Black • 220 × 110 × 21.5 mm • 620 g
<b>Power</b>	DC 12V/1A • 6.24W max

## PACKAGE CONTENTS

- 1x 48Gbps 2x4 HDMI Matrix Splitter • 1x 12V/1A Multinational Locking Power Supply • 1x IR Remote • 1x IR Wideband Receiver (1.5m)  
 • 1x 3pin-3.5mm Phoenix Connector • 1x 5pin-3.5mm Phoenix Connector • 2x Mounting Ears • 4x Machine Screws • 1x User Manual



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