

## 48Gbps 8K 2x8 HDMI Matrix Splitter with Independent Downscaling & Audio De-embedding






Switch 2 HDMI Inputs to 8 Screens with Auto-Scaling Video & Balanced/Digital Audio Breakout

MPN: SP-HDMI2X8-8K



Eliminate the multi-box problem by combining two-source HDMI 2.1 switching with eight independently scaled outputs in a single compact enclosure. Each output downscalls 8K to 4K or 2K and converts HDR to SDR on the fly, enabling mixed-resolution display fleets to receive optimized video without external scalers or EDID workarounds.

HDMI 2.1 / HDCP 2.3 compliant with 48Gbps bandwidth supporting 8K@60Hz 4:2:0, 8K@30Hz 4:4:4, and 4K@120Hz 4:4:4. HDR10/HDR10+/Dolby Vision/HLG/ALLM/VRR pass-through. Audio de-embedding via optical S/PDIF (5.1CH) and balanced/unbalanced analog (2CH) with adjustable gain. Built-in signal generator with 15 resolutions and 13 test patterns. Control via front panel, IR, RS-232 ASCII, or USB-C service port.

|  |  |   |   |  |
|--|--|---|---|--|
| <br><b>8K60</b><br>4:2:0 HDR<br>48 Gbps | <br><b>2x8</b><br>HDMI Matrix<br>Splitter | <br><b>Downscale</b><br>Per-Output<br>8K → 4K/2K | <br><b>Audio</b><br>Balanced<br>Optical S/PDIF | <br><b>Control</b><br>RS-232 • IR<br>Signal Gen |
|--|--|---|---|--|

### KEY FEATURES

- Routes two HDMI 2.1 sources to eight displays at up to 8K@60Hz 4:2:0 12-bit with 48Gbps bandwidth and HDCP 2.3 compliance
- Independent 8K → 4K/2K downscaling on each output — auto, bypass, or force 1080p per display for mixed-resolution fleets
- Per-output HDR → SDR conversion preserves accurate imagery on non-HDR displays without manual EDID intervention
- HDR10, HDR10+, Dolby Vision, HLG, ALLM, and VRR pass-through for gaming and cinematic content on compatible screens
- Audio de-embedding via optical S/PDIF (LPCM/Dolby/DTS 5.1CH) and balanced/unbalanced analog (LPCM 2CH) with adjustable gain (0 dB to -79 dB)
- Built-in HDMI signal generator with 15 resolutions (8K to 480p) and 13 test patterns for on-site commissioning and cable diagnostics
- Advanced EDID management with 16 hardware DIP switch presets and 33 software presets including 2 user-defined slots and pass-through mode
- Control via front panel buttons, IR remote, and RS-232 ASCII commands (3-pin phoenix, configurable 4800–115200 bps) — USB-C service port for firmware updates

### SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| <b>HDMI / HDCP</b>          | HDMI 2.1 • HDCP 2.3  |
| <b>Video Bandwidth</b>      | 48 Gbps  |
| <b>Video Resolution</b>     | 8K@60Hz 4:2:0 • 8K@30Hz 4:4:4 • 4K@120Hz 4:4:4                       |
| <b>HDR Formats</b>          | HDR10 • HDR10+ • Dolby Vision • HLG • 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: LPCM 2CH balanced/unbalanced                |
| <b>HDMI I/O</b>             | 2x HDMI In • 8x HDMI Out • 1x Optical • 1x Analog (5-pin)            |
| <b>Control</b>              | Front Panel • IR Remote • RS-232 (3-pin phoenix) • USB-C Service     |
| <b>EDID</b>                 | 16 DIP presets • 33 software presets • 2 user-defined • pass-through |
| <b>Enclosure</b>            | Metal • Black • 320 × 100 × 21.5 mm • 810 g                          |
| <b>Power</b>                | DC 12V/2.5A • 9.6W max   |

### PACKAGE CONTENTS

1x 48Gbps 2x8 HDMI Splitter • 1x 12V/2.5A Locking Power Supply • 1x IR Remote • 1x IR Wideband Receiver (1.5m) • 1x 3-pin Phoenix • 1x 5-pin Phoenix • 2x Mounting Ears • 4x Machine Screws • 1x User Manual



Scan for product page

kanexpro.com/item/SP-HDMI2X8-8K

sales@kanexpro.com | www.kanexpro.com