

48Gbps 8K 2-In 8-Out HDMI Switching Splitter with Independent Downscaling & Audio De-embedding

Select 1 of 2 HDMI Sources and Send It to 8 Screens, with Auto-Scaling Video & Balanced/Digital Audio Breakout

MPN: SP-HDMI2X8-8K



The SP-HDMI2X8-8K eliminates the multi-box problem of chaining a separate switcher into a distribution amplifier by combining two-source HDMI 2.1 switching with eight independently scaled outputs in a single compact enclosure. All eight outputs show the selected source at the same time; to send a different source to each display, use a true matrix switcher. 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.

Compliant with HDMI 2.1 and HDCP 2.3, the splitter delivers 48Gbps bandwidth supporting 8K@60Hz 4:2:0, 8K@30Hz 4:4:4, and 4K@120Hz 4:4:4 with HDR10, HDR10+, Dolby Vision, HLG, ALLM, and VRR pass-through. Audio de-embedding provides both optical S/PDIF (up to 5.1CH) and balanced/unbalanced analog output with adjustable gain via a 5-pin phoenix connector. A built-in signal generator with 15 resolutions and 13 test patterns simplifies commissioning and cable verification. Control via front panel, IR remote, or RS-232 ASCII commands.

 48Gbps 8K HDMI 2.1 with HDCP 2.3	 2x8 Splitter one of two sources to eight displays	 Per-Output Scaling 8K to 4K/2K downscaling on each output	 HDR to SDR conversion on each output	 Audio Breakout optical S/PDIF and balanced analog
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KEY FEATURES

- Selects 1 of 2 HDMI 2.1 sources and sends it to all 8 displays at once, up to 8K@60Hz 4:2:0 at 48Gbps with HDCP 2.3
- Independent 8K to 4K/2K downscaling per output: auto, bypass or force 1080p
- Per-output HDR to SDR conversion for non-HDR displays
- HDR10, HDR10+, Dolby Vision, HLG, ALLM and VRR pass-through
- Audio de-embedding: optical S/PDIF up to 5.1CH and balanced/unbalanced analog 2CH, gain 0 dB to -79 dB
- Built-in signal generator with 15 resolutions and 13 test patterns
- EDID management: 16 DIP switch presets and 33 software presets incl. 2 user slots and pass-through
- Control by front panel, IR remote and RS-232 ASCII; USB-C service port for firmware updates

SPECIFICATIONS

HDMI / HDCP	HDMI 2.1 / HDCP 2.3
Video Bandwidth	48Gbps
Max Resolution	8K@60Hz 4:2:0 12-bit; 8K@30Hz 4:4:4 12-bit; 4K@120Hz 4:4:4 12-bit
HDR Formats	HDR, HDR10, HDR10+, Dolby Vision, HLG
Gaming	ALLM, VRR
Inputs	2x HDMI Type A
Outputs	8x HDMI Type A, 1x Optical S/PDIF, 1x L/R Analog (5-pin phoenix)
Control	RS-232 (3-pin phoenix), IR CTL (3.5mm), USB-C service
Audio De-embed	Optical LPCM/Dolby/DTS up to 5.1CH; Analog LPCM 2CH
Analog Audio Gain	0 dB to -79 dB
Dimensions	320mm W x 100mm D x 21.5mm H
Weight	810 g

