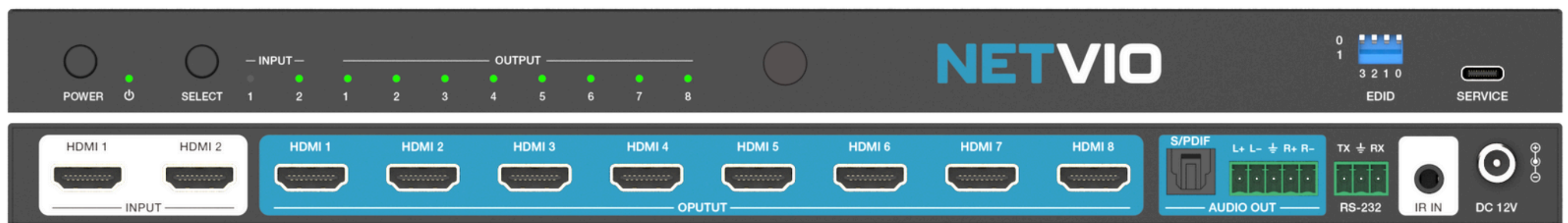


SP-H2-0208-10

2×8 HDMI 2.1 48Gbps Splitter with 8K60 HDR, Downscaling, Audio Extraction & EDID Management



> Product Description

The Netvio SP-H2-0208-10 is a professional-grade 2×8 HDMI 2.1 splitter designed for ultra-high-definition AV distribution in corporate, education, retail, broadcast, and residential environments. With 48Gbps bandwidth and full HDCP 2.3 compliance, it supports resolutions up to 8K@60Hz (4:2:0, 12-bit), 8K@30Hz (4:4:4, 12-bit), and 4K@120Hz (4:4:4, 12-bit).

Each of the 8 HDMI outputs can independently downscale 8K content to 4K or 1080p, ensuring full compatibility in mixed-display systems. Advanced processing also enables HDR-to-SDR conversion for legacy displays.

For audio flexibility, the unit features optical S/PDIF and balanced/unbalanced analog outputs with gain control, allowing direct connection to amplifiers, sound systems, or external processors. EDID management, auto/manual input switching, and a built-in HDMI signal generator further simplify installation and troubleshooting.

Control options include front panel buttons, IR remote, RS-232, USB-C service, and API commands, ensuring seamless integration into both standalone and controlled AV systems.

> Product Features

- 2×8 HDMI 2.1 Splitter – Distribute two HDMI sources to eight displays.
- Ultra HD Performance – Up to 8K60, 8K30 4:4:4, and 4K120 4:4:4 with 48Gbps bandwidth.
- HDR Format Support – HDR10, HDR10+, Dolby Vision, HLG, ALLM/VRR pass-through.
- Output Downscaling – Independent 8K→4K/1080p scaling per output.
- HDR to SDR Conversion – Ensures compatibility with legacy displays.
- Audio De-Embedding – Optical S/PDIF and balanced/unbalanced analog outputs with gain adjustment.
- Flexible EDID Management – Advanced DIP-switch and software control modes.
- Built-in Signal Generator – Quick testing and diagnostics of HDMI cables and devices.
- Control Options – Front panel, IR remote, RS-232, USB-C, and API commands.
- Professional Design – Rugged metal enclosure with compact rack-mount form factor.

> What's Included

- 1× SP-H2-0208-10 HDMI 2×8 Splitter
- 1× 12V/2.5A Locking Power Adapter
- 1× IR Remote Control
- 1× RS-232 3-pin Phoenix Connector
- 1× User Information
- 2× Rack Mounting Ears with Screws

> Specifications

Video

- HDMI Compliance: HDMI 2.1
- HDCP Compliance: HDCP 2.3
- Bandwidth: 48Gbps
- Resolutions: Up to 8K@60Hz (4:2:0, 12-bit), 8K@30Hz (4:4:4, 12-bit), 4K@120Hz (4:4:4, 12-bit)
- Color Space: RGB, YCbCr 4:4:4, 4:2:2, 4:2:0
- Color Depth: 8/10/12-bit
- HDR Support: HDR10, HDR10+, Dolby Vision, HLG
- Downscaling: 8K→4K/1080p, selectable per output
- HDR to SDR Conversion: Yes, per output

Audio

- HDMI Audio: LPCM, Dolby Digital/Plus/EX, Dolby TrueHD, Dolby Atmos, DTS, DTS-HD MA, DSD
- Optical (S/PDIF): Up to LPCM/Dolby/DTS 5.1ch
- Analog Out (5-pin Phoenix): Balanced 2Vrms / Unbalanced 1Vrms (gain adjustable)
- Frequency Response: 20Hz–20kHz (+0.5dB/–1dB)
- S/N Ratio: 99dB @ 2Vrms, 1kHz, A-weighted
- THD+N: <0.2% @ 0dBV, 1kHz

Inputs / Outputs

- Inputs: 2× HDMI Type-A (female)
- Outputs: 8× HDMI Type-A (female)
- Audio Outputs: 1× Optical S/PDIF, 1× L/R Balanced/Unbalanced Analog (Phoenix)

Control & Features

- Control: Front panel buttons, IR remote, RS-232, USB-C service, API commands
- EDID Management: DIP-switch presets, user EDID, copy, pass-through
- Signal Generator: Internal HDMI test patterns & resolutions
- Auto Switching: Yes, with HDMI 5V detection

Mechanical

- Dimensions: 320 × 100 × 21.5 mm (12.6" × 3.94" × 0.85")
- Weight: 810g (1.79 lbs)
- Enclosure: Metal, black finish

Environmental

- Operating Temp: 0–40°C (32–104°F)
- Storage Temp: –20–60°C (–4–140°F)
- Humidity: 20–80% RH (operating), 10–90% RH (storage)

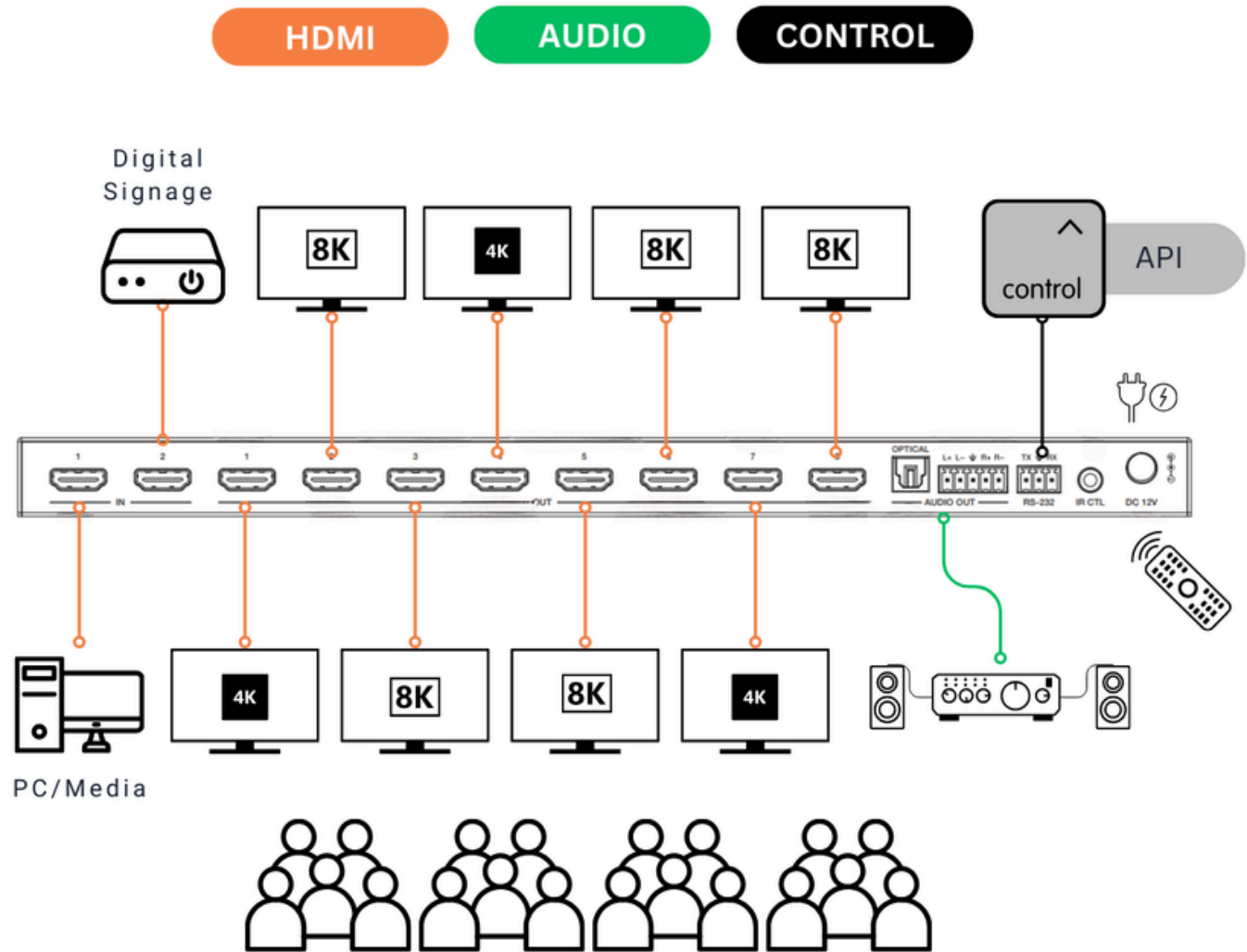
Power

- Supply: DC 12V/2.5A (locking connector)
- Consumption: 9.6W (max)

Warranty

- 5 Years (for full details, visit the Netvio website)

> Wiring Diagram



> A&E Specification

The unit shall be a Netvio SP-H2-0208-10 HDMI 2×8 Splitter supporting HDMI 2.1 and HDCP 2.3 compliance. It shall distribute two HDMI inputs to eight HDMI outputs simultaneously, with video resolutions up to 8K@60Hz (4:2:0, 12-bit), 8K@30Hz (4:4:4, 12-bit), and 4K@120Hz (4:4:4, 12-bit). The splitter shall support HDR10, HDR10+, Dolby Vision, and HLG formats.

Each HDMI output shall provide selectable downscaling from 8K to 4K/1080p and optional HDR-to-SDR conversion for compatibility with legacy displays. The device shall include audio extraction via optical S/PDIF and balanced/unbalanced analog outputs with gain adjustment.

The splitter shall provide advanced EDID management, auto/manual switching, and an internal HDMI signal generator for testing. Control options shall include front panel buttons, IR remote, RS-232, USB-C, and API commands.

The enclosure shall be metal, measuring 320mm × 100mm × 21.5mm (12.6" × 3.94" × 0.85") and weighing 810g (1.79 lbs). Power shall be provided by a 12V DC / 2.5A supply with a maximum consumption of 9.6W.

The product shall carry a 5-year warranty (full details available on the Netvio website).