

SP-H2-0208-10

NETVIO

48GBPS 2X8 (DUAL INPUT) 8K HDMI SPLITTER



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Safety Information



Do not attempt to remove the product casing, as this may result in electrical shock. Repairs should not be attempted by anyone other than qualified personnel. For any service or repair needs, please contact Netvio Ltd or an authorized reseller to follow the proper service procedures. Any unauthorized repairs or the use of non-approved components will void the product warranty. For complete warranty terms and conditions, please visit: www.netvio.co.uk.

The Netvio SP-H2-0208-10 is a professional-grade 8K60 4:2:0 HDMI splitter, engineered for high-performance AV applications. Featuring dual HDMI inputs and eight outputs, it ensures seamless signal distribution with advanced scaling, EDID management, and API integration for enhanced system control.

Designed for commercial installations, digital signage, and high-resolution presentations, the SP-H2-0208-10 delivers uncompromising clarity, reliability, and flexibility in demanding environments.

IMPORTANCE OF HDMI CABLES

The performance of the SP-H2-0208-10 relies heavily on the quality of HDMI cables used.

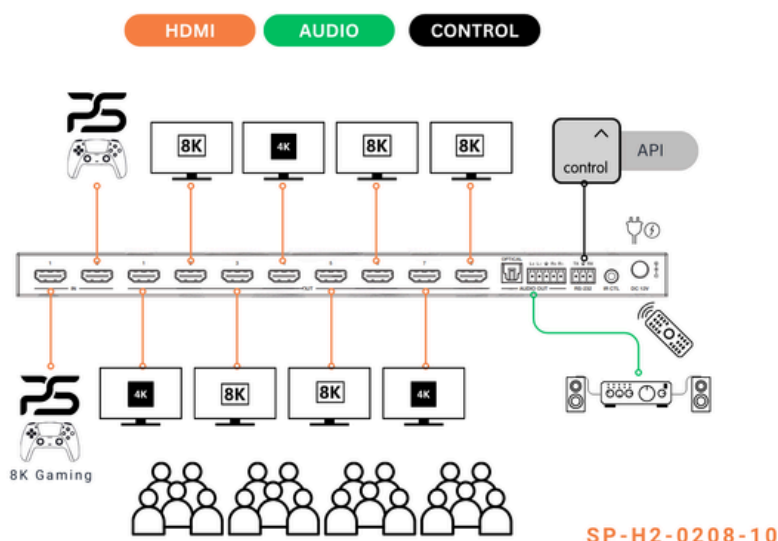
To ensure optimal functionality, high-quality, high-speed HDMI cables are required. For extended distances, we recommend using active HDMI extenders or active optical cables to maintain signal integrity and performance.

WARRANTY

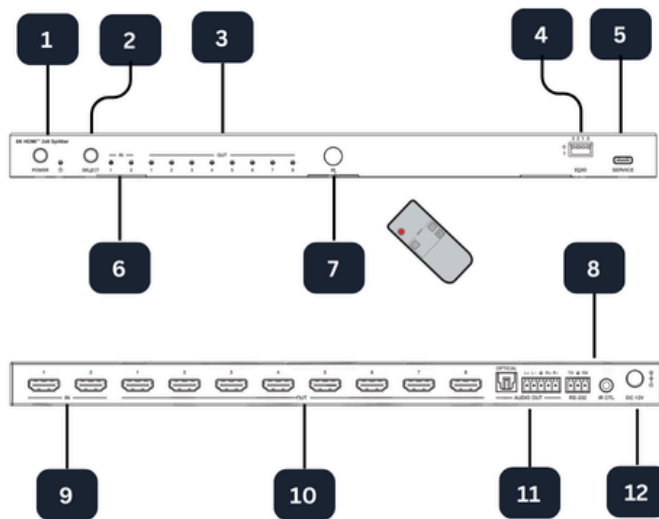
- Standard 5-Year warranty. Details available at www.netvio.co.uk

IN-THE-BOX

- SP-H2-0208-10
- 1.5m IR Receiver Cable
- RS-232 Phoenix Connector
- Mounting brackets
- IR remote
- Regionalized UK/EU/US/AUS DC 12V/2.5A power input port



SP CONNECTIONS



- 1 Power button & LED Status | Green On | Red Standby
- 2 Manual source selection
- 3 Connected display status | Green shows active connection
- 4 EDID management (see user guide for settings)
- 5 Service
- 6 Active source indicator | Green indicates selected input
- 7 IR receiving window
- 8 RS-232 serial port for API control & IR extension port.
- 9 HDMI input port
- 10 HDMI output port
- 11 Audio output connections
- 12 PSU | DC 12V/2.5A power input port.

SP-H2-0208-10

INSTALLATION NOTES

EDID DIP SWITCHES SETTINGS

- DIP_0000: EDID pass-through (Copy from Sink 1) (default)
- DIP_0001: HDMI 1080p@60Hz, Audio 2CH PCM
- DIP_0010: HDMI 1080p@60Hz, Audio 5.1CH DTS/DOLBY
- DIP_0011: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 2ch PCM
- DIP_0100: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY
- DIP_0101: HDMI 4K@120Hz 4:4:4, 10-bit HDR/DV, Audio 2ch PCM
- DIP_0110: HDMI 4K@120Hz 4:4:4, 10-bit HDR/DV, Audio 5.1CH DTS/DOLBY
- DIP_0111: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 2ch PCM
- DIP_1000: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 5.1CH DTS/DOLBY
- DIP_1001: HDMI 8K@60Hz 4:2:0, 10-bit HDR/DV, Audio 2ch PCM
- DIP_1010: HDMI 8K@60Hz 4:2:0, 10-bit HDR/DV, Audio 5.1CH DTS/DOLBY
- DIP_1011: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 2ch PCM
- DIP_1100: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 5.1CH DTS/DOLBY
- DIP_1101: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 2ch PCM- Inc VRR/DSC
- DIP_1110: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 5.1CH DTS/DOLBY- Inc VRR/DSC
- DIP_1111: EDID Software if possible or HDMI 1080p@60Hz, Audio 2ch PCM

A power cycle after setting switches will be required.

FEATURES

- Dual 8K HDMI inputs up to 48Gbps
- Independent 8K to 4K/2K downscaling including HDR to SDR
- 5-Year Warranty (2-Years Advanced Replacement).
- Digital & analog audio outputs including gain control via API
- Auto or manual switching between sources
- Front panel switching or direct IR (or extended)
- API for control system integration
- Library of EDID settings via DIP switch settings
- 5-year warranty (2-year advanced replacement)

SPECIFICATIONS

- Compliances include HDMI2.1, HDCP2.3
- Video bandwidth upto 48Gbps
- Video resolution | 8K@60Hz 4:2:0 12bit, 8K@30Hz 4:4:4 12bit, 4K@120Hz 4:4:4 12bit
- Compatible with HDR10+, Dolby Vision LLM & HLG
- Multi-Channel audio formats upto Dolby True DH & DTS-HD Master Audio

MECHANICAL

- **Weights & Dimensions**
 - 320mm (W) 100mm (D) 21.5 (H) | Weight 810g
- **Power Supply**
 - DC 12V/2.5A (US/EU/UK/AUS standard, CE/FCC/UL/C-Tick certified)
- **Power Consumption**
 - 9.6W (Max)
- **Operating Temperature**
 - 32 - 104°F / 0 - 40°C
- **Storage Temperature**
 - -4 - 140°F / -20 - 60°C
- **Relative Humidity**
 - 20 - 90% RH (no condensation)
- **Product Certifications**
 - CE, UKCA, FCC

ASCII Commands				
1. Service port (USB-C virtual RS-232) communication protocol (Internal debug) Baud rate: 115200 (fixed), Data bit: 8, Stop bit: 1, Parity bit: none The end mark of command is "<CR><LF>"				
2. Phoenix RS-232 port communication protocol (Connect to control system) Baud rate: 4800~115200 (configurable), Data bit: 8, Stop bit: 1, Parity bit: none The end mark of command is "<CR><LF>"				
Commands	Function	Example	Feedback	Default
?	Get the list of all commands	?		
help	Get the list of all commands	help		
get fw version	Get firmware version	get fw version	1.0.0	
set power on/off	Set device power on/off	set power on set power off	Power on... System Initializing... Initialization Finished! FW: 1.0.0 Power off...	
get power	Get device power status	get power	Power on	
set reboot	Reboot the device	set reboot	Reboot... System Initializing... Initialization Finished! FW: 1.0.0	
set reset	Reset to factory defaults	set reset	Sure to RESET to default settings? Type "Yes" after next prompt to confirm...	
get status	Get system status	get status	Please refer to the note at the end of the list.	
set IR on/off	Set IR on/off	set IR on set IR off	Set IR on Set IR off	on
get IR	Get IR on/off status	get IR	IR on	

Commands	Function	Example	Feedback	Default
set key on/off	Set front panel key on/off	set key on set key off	Set key on Set key off	on
get key	Get front panel key on/off status	get key	Key on	
set baud x	Set RS-232 baud rate to x bps x=1: 4800 x=2: 9600 x=3: 19200 x=4: 38400 x=5: 57600 x=6: 115200	set baud 6	Set baud rate 115200	115200
get baud	Get RS-232 baud rate	get baud	Baud rate 115200	
set input x	Set input video (x=0~2) x=0: Off x=1~2: HDMI input 1~2	set input 1	Set input HDMI 1	1
get input	Get input port	get input	Input HDMI 1	
get hdmi5v	Get input HDMI 5V	get hdmi5v	HDMI 1: 5V HDMI 2: none	
set autoswitch x	Set auto-switching on/off (HDMI 5V detection) x=On, Off	set autoswitch on	Set autoswitch on	on
get autoswitch	Get auto-switching status	get autoswitch	Autoswitch on	
set output x downscale y	Set output (x=0~8) downscaling mode (y=0~2) x=0: all outputs x=1~8: HDMI output 1~8 y=0: Automatically according to display's capability y=1: Bypass video y=2: Force 1080p	set output 0 downscale 0	Set all outputs downscale auto	0
get output x downscale	Get output (x=0~8) downscaling mode	get output 0 downscale	HDMI output 1 downscale auto HDMI output 2 downscale auto HDMI output 3 downscale auto HDMI output 4 downscale auto HDMI output 5 downscale auto HDMI output 6 downscale auto HDMI output 7 downscale auto HDMI output 8 downscale auto	

Commands	Function	Example	Feedback	Default
set output x display y	Set output (x=0~8) display mode (y=0~3) x=0: all outputs x=1~4: HDMI output 1~8 y=0: Off (disable TMDs output) y=1: Input video y=2: AVMUTE y=3: Internal pattern	set output 0 display 2	Set all outputs display internal pattern	1
get output x display	Get output (x=0~8) display mode	get output 0 display	HDMI output 1 display internal pattern HDMI output 2 display internal pattern HDMI output 3 display internal pattern HDMI output 4 display internal pattern HDMI output 5 display internal pattern HDMI output 6 display internal pattern HDMI output 7 display internal pattern HDMI output 8 display internal pattern	
set output x HDCP y	Set output (x=0~8) HDCP mode (y=0~4) x=0: all outputs x=1~4: HDMI output 1~8 y=0: Reserved y=1: Follow sink y=2: Follow source y=3: Force HDCP 1.4 y=4: Force HDCP 2.2	set output 0 HDCP 1	Set all outputs HDCP follow sink	1
get output x HDCP	Get output (x=0~8) HDCP mode	get output 0 HDCP	HDMI output 1 HDCP follow sink HDMI output 2 HDCP follow sink HDMI output 3 HDCP follow sink HDMI output 4 HDCP follow sink HDMI output 5 HDCP follow sink HDMI output 6 HDCP follow sink HDMI output 7 HDCP follow sink HDMI output 8 HDCP follow sink	
get generator	Get internal signal generator output resolution and pattern	get generator	Generator 8K30Hz color bar	

Commands	Function	Example	Feedback	Default
set generator x y	Set internal signal generator resolution (x=1~15) pattern (y=1~13) x=01: 8K30Hz x=02: 4K120Hz x=03: 4K100Hz x=04: 5K60Hz x=05: 5K50Hz x=06: 5K30Hz x=07: 5K25Hz x=08: 5K24Hz x=09: 4K60Hz x=10: 4K50Hz x=11: 4K25Hz x=12: 4K24Hz x=13: 1080P60Hz x=14: 480P60Hz x=15: 576P50Hz y=01: Color bar y=02: Checkboard y=03: Strip y=04: Red y=05: Green y=06: Blue y=07: White y=08: Ramp y=09: Red ramp y=10: Green ramp y=11: Blue ramp y=12: PRBS y=13: Black	set generator 1 1	Set generator 8K30Hz color bar	
set analog mute x	Set analog audio mute on/off x=On, Off	set analog mute on	Set analog mute on	off
get analog mute	Get analog audio mute status	get analog mute	off	
set analog gain x	Set analog audio gain (x=0dB ~ -79dB)	set analog gain -79dB	Set analog gain -79dB	0dB
get analog gain	Get analog audio gain value	get analog gain	Analog gain -79dB	
set edid x to y	Set input ports (x=0~2) to EDID (y=0~32) x=0: all inputs x=1~2: HDMI input 1~2 y=00: HDMI 1080p@60Hz, Audio 2CH PCM (default)	set edid 0 to 0	Set all inputs EDID to SDF_00: HDMI 1080p@60Hz, Audio 2CH PCM (default)	0

Commands	Function	Example	Feedback	Default
set edid x to y	(Continued) y=01: HDMI 1080p@60Hz, Audio 5.1CH DTS/DOLBY y=02: HDMI 1080p@60Hz, Audio 7.1CH DTS/DOLBY/HD y=03: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 2ch PCM y=04: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY y=05: HDMI 4K@60Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD y=06: HDMI 4K@120Hz 4:4:4, 8-bit, Audio 2ch PCM y=07: HDMI 4K@120Hz 4:4:4, 8-bit, Audio 5.1CH DTS/DOLBY y=08: HDMI 4K@120Hz 4:4:4, 8-bit, Audio 7.1CH DTS/DOLBY/HD y=09: HDMI 4K@120Hz 4:4:4, 10-bit HDR/DV, Audio 2ch PCM y=10: HDMI 4K@120Hz 4:4:4, 10-bit HDR/DV, Audio 5.1CH DTS/DOLBY y=11: HDMI 4K@120Hz 4:4:4, 10-bit HDR/DV, Audio 7.1CH DTS/DOLBY/HD y=12: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 2ch PCM y=13: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 5.1CH DTS/DOLBY y=14: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 7.1CH DTS/DOLBY/HD y=15: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 2ch PCM - Inc VRR/DSC y=16: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 5.1CH DTS/DOLBY - Inc VRR/DSC y=17: HDMI 4K@120Hz 4:4:4, 12-bit HDR/DV, Audio 7.1CH DTS/DOLBY/HD - Inc VRR/DSC y=18: HDMI 8K@60Hz 4:2:0, 10-bit HDR/DV, Audio 2ch PCM y=19: HDMI 8K@60Hz 4:2:0, 10-bit HDR/DV, Audio 5.1CH DTS/DOLBY y=20: HDMI 8K@60Hz 4:2:0, 10-bit HDR/DV, Audio 7.1CH DTS/DOLBY/HD y=21: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 2ch PCM	set edid 0 to 0	Set all inputs EDID to SDF_00: HDMI 1080p@60Hz, Audio 2CH PCM (default)	0

Commands	Function	Example	Feedback	Default
	(Continued) y=22: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 5.1CH DTS/DOLBY y=23: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 7.1CH DTS/DOLBY/HD y=24: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 2ch PCM - Inc VRR/DSC y=25: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 5.1CH DTS/DOLBY - Inc VRR/DSC y=26: HDMI 8K@60Hz 4:2:0, 12-bit HDR/DV, Audio 7.1CH DTS/DOLBY/HD - Inc VRR/DSC y=27: DVI 1920x1080@60Hz, Audio None y=28: DVI 1920x1200@60Hz, Audio None y=29: HDMI 1920x1200@60Hz, Audio 2ch PCM y=30: User EDID 1 y=31: User EDID 2 y=32: EDID pass-through (Copy from Sink 1)			
get edid x	Get input ports EDID x=0: all inputs x=1~2: HDMI input 1~2	get edid 0	HDMI input 1 EDID SDF_00: HDMI 1080p@60Hz, Audio 2CH PCM (default) HDMI input 2 EDID SDF_00: HDMI 1080p@60Hz, Audio 2CH PCM (default)	
get edid data x	Get input ports EDID data x=0: all inputs x=1~2: HDMI input 1~2	get edid data 0	HDMI input 1 EDID <00 FF FF FF....> HDMI input 2 EDID <00 FF FF FF....>	
set user edid x <y>	Set user defined EDID (x=1~2) x=1: User Defined 1 x=2: User Defined 2 y = 00 FF FF FF (y is 256 bytes EDID data)	set user edid 1 <00 FF FF FF....>	User defined 1 EDID is loaded successfully	

Commands	Function	Example	Feedback	Default
get user edid x	Get user defined EDID (x=1~2) x=1: User Defined 1 x=2: User Defined 2	get user edid 1	User defined 1 EDID <00 FF FF FF....>	

Note: The feedback of the command of “get status” is as follow. (The middle line ends with <LF><CR> and the last line ends with <CR><LF>.)

```
=====
Status Info 8K 2x8 Splitter
FW 1.0.0
```

```
Power      Key      IR      Baud      Autoswitch
On          On      On      115200    On
```

```
Input      Cable      EDID
01          Connected  DIP_0000:EDID pass-through
02          Connected  DIP_0000:EDID pass-through
```

```
Output  FromIn  Cable      Resolution      ColorSpace  ColorDepth  Scaler  HDCP
01      01    Connected  3840x2160p60Hz  YUV 4:2:0   12bit      Off    Sink
02      01    Connected  3840x2160p60Hz  YUV 4:2:0   12bit      Off    Sink
03      01    Connected  3840x2160p60Hz  YUV 4:2:0   12bit      Off    Sink
04      01    Connected  3840x2160p60Hz  YUV 4:2:0   12bit      Off    Sink
05      01    Connected  1920x1080p60Hz  YUV 4:4:4   8bit       On     Sink
06  AVMUTE  Connected  3840x2160p60Hz  YUV 4:2:0   12bit      Off    Sink
07  Pattern  Connected  7680x4320p30Hz  RGB 4:4:4   8bit       Off    Sink
08      01    None       None            None        None       Off    Sink
```