


# 1x4 4K HDMI2.0 (18Gbps) Splitter with HDCP 2.2

SP-0104-H2



## Quickstart Guide

 WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.



### IMPORTANT! Installation Requirements

- This product was released in multiple versions which contain different configuration procedures. The differences are identified in the appropriate sections of this document and versions can be identified by the product model number sticker. See [Identifying Product Versions](#).
- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Install the latest firmware to ensure that all features described in this document are available during and after installation.
- Read through the [Wiring and Connections](#) section for important wiring guidelines before creating or choosing premade cables.
- While this product supports CEC, WyreStorm cannot guarantee compatibility with all forms of CEC communication.

### In The Box

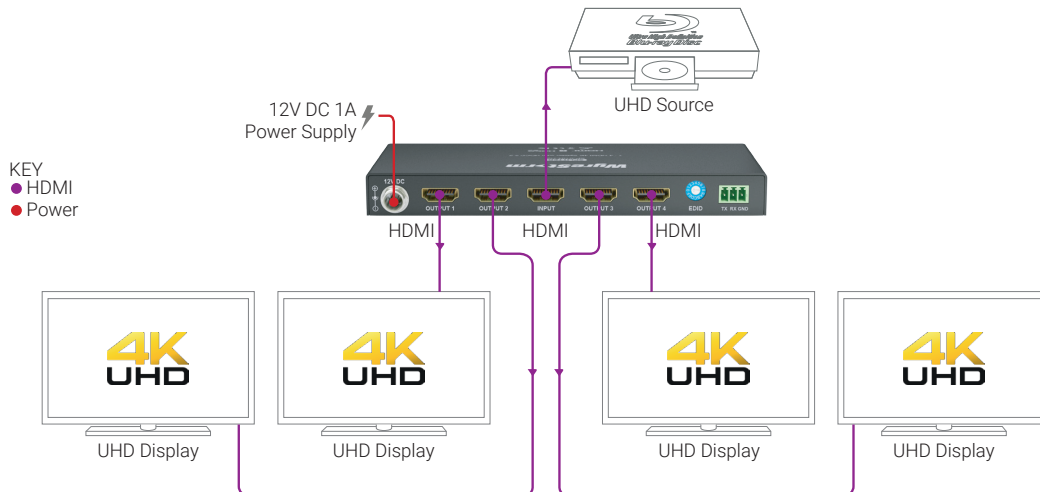
- 1x SP-0104-H2 Splitter
- 1x 12V DC 1A Power Supply
- 1x 3-pin Screw Down Phoenix Connector
- 2x Mounting Brackets
- 1x Quickstart Guide (This Document)

### Identifying Product Versions

This product was released in multiple versions which contain different configuration procedures. The differences are identified in the appropriate sections of this document.

Versions can be identified by a v# after the model number on the product chassis. Note that version 1 of this product may not contain a v1 after the product while all versions above version 1 are identified with the version number.

## Basic Wiring Diagram



## Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in its entirety before running or terminating the wires to ensure proper operation and to avoid damaging equipment.

### HDMI Wiring

#### IMPORTANT! HDMI Wiring Guidelines

- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference can have an adverse effect on HDMI transmission limiting performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using high quality HDMI cables such as WyreStorm Express to ensure the highest content performance available.
- The length of HDMI cable used can restrict the available video resolution. See **Video Resolutions** in the **Specifications** table before determining cable length.

### EDID Settings

EDIDs can be configured to resolve issues with video output on displays that may not accept the maximum resolution available from the source.

**Note:** This product was released in multiple versions which have different EDID settings for the rotary switch. See Identifying Product Versions to ensure that the proper settings are used based on the product version.

- Ensure that a display is connected and powered On to the selected output before copying EDIDs or the copy will fail. When this occurs, EDID will be set to 1080p @60Hz 2ch.
- Power to the splitter must be cycled (Off/On) after changing dip switches in order for the setting to take effect.



#### Copying EDIDs from Output 1

1. Set the EDID dial to 0 (Default)
2. Connect a source to the input.
3. Connect the lowest resolution display to output 1.
4. Power on the source, display, and splitter.
5. After a few moments the EDID from the display will be configured.

**Note:** If the EDID copy fails, the EDID will be set to 1080p @60Hz 2ch.

#### Version 1 and 2 Rotary Dial Settings

Operation	Rotary Position
Copy EDID from HDMI output1 (default setting)	0
1920x1080i @60Hz 2ch	1
1920x1080i @60Hz 5.1ch	2
1920x1080i @60Hz 7.1ch	3
1920x1080p @60Hz 2ch	4
1920x1080p @60Hz 5.1ch	5
1920x1080p @60Hz 7.1ch	6
1920x1080p @60Hz 3D 2ch	7
1920x1080p @60Hz 3D 5.1ch	8
1920x1080p @60Hz 3D 7.1ch	9
1280x1024 DVI	A
1920x1080 DVI	B
1920x1200 DVI	C
3840x2160p @30Hz 2ch	D
4096x2160p @60Hz 2ch	E
Copy EDID from HDMI output2	F

#### Version 3 Rotary Dial Settings

Mode	Operation	Rotary Position
Mixed	Video: Compatibility   Audio: Compatibility (Default)	0
	Video: Quality   Audio: Compatibility	1
	Video: Compatibility   Audio: Quality	2
	Video: Quality   Audio: Quality	3
Fixed	3840x2160p @30Hz 2ch	4
	3840x2160p @30Hz 5.1ch	5
	3840x2160p @30Hz 7.1ch	6
	1920x1080p @60Hz 3D 2ch	7
	1920x1080p @60Hz 3D 5.1ch	8
	1920x 1080p @60Hz 3D 7.1ch	9
Copy	Copy EDID from Output 1	A
	No Function	B~F

## Troubleshooting

### No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to all devices in the system and that they are powered on.
- Verify that all source connections are not loose and are functioning properly.
- Verify that the splitter and display support the output resolution of the source.
- Refer to **Video Resolutions** in the [Specifications](#) table before determining cable type and length.
- If transmitting 3D or 4K, verify that the HDMI cables used are 3D or 4K rated.



### Troubleshooting Tips:

- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.
- Use a flashlight to locate the IR receiver behind any tinted panels on the device being control.

## Specifications

Audio and Video		
<b>Inputs</b>	1x HDMI 19-pin type A	
<b>Outputs</b>	4x HDMI 19-pin type A	
<b>Audio Formats</b>	2ch PCM   Up to DTS-X and Dolby Atmos	
	<b>Version 1</b>	<b>Version 2/3</b>
<b>Video Resolutions (Max)</b>	1920x1080p @60Hz 12bit (15m/49.2ft)   16bit (15m/49.2ft) 3840x2160p @30Hz 4:4:4 8bit (15m/49.2ft) 4096x2160p @60Hz 8bit 4:2:0 (15m/49.2ft)	1920x1080p @60Hz 12bit (15m/49.2ft)   16bit (15m/49.2ft) 3840x2160p @30Hz 4:4:4 8bit (15m/49.2ft) 3840x2160p @24Hz 4:2:0 HDR 10bit (15m/49.2ft) 4096x2160p @60Hz 8bit 4:2:0 (15m/49.2ft) 4096x2160p @60Hz 8bit 4:4:4 (3m/9.8ft)
<b>Color Depth</b>	1080p: 48bit   4K UHD: 24bit	1080p: 48bit   4K UHD: 24bit   HDR @24p: 10bit BT.2020
<b>Maximum Pixel Clock</b>	340mHz	600MHz
Communication and Control		
<b>HDMI</b>	HDMI 1.4   HDCP 1.4   Configurable EDID DVI/D supported with adapter (not included)	HDMI   HDCP 2.2   Configurable EDID DVI/D supported with adapter (not included)
<b>RS-232</b>	1x RS-232 3-pin Phoenix Connector (Firmware Updates)	
Power		
<b>Power Supply</b>	Input: 100~240V AC 50/60Hz   Output: 12V DC 1A	
<b>Max Power Consumption</b>	4W	
Environmental		
<b>Operating Temperature</b>	32°F ~ 113°F (0°C ~ 45°C)   10% ~ 90%, non-condensing	
<b>Storage Temperature</b>	-4°F to ~ 158°F (-20°C ~ +70°C)   10% ~ 90%, non-condensing	
<b>Maximum BTU</b>	13.64 BTU/hr	
Dimensions and Weight		
<b>Rack Units/Wall Box</b>	<1U	
<b>Height</b>	18mm/0.71in	
<b>Width</b>	167.2mm/6.59in	
<b>Depth</b>	69.7mm/2.75in	
<b>Weight</b>	0.32kg/0.7lbs	
Regulatory		
<b>Safety and Emission</b>	CE   FCC   RoHS	

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

## Warranty Information

This product is covered by a 2 year limited parts and labor warranty. During this period there will be no charge for unit repair, component replacement or complete product replacement in the event of malfunction. The decision to repair or replace will be made by the manufacturer. This limited warranty only covers defects in materials or workmanship and excludes normal wear and tear or cosmetic damage. Visit the product page located at [wyrestorm.com](http://wyrestorm.com) for additional information on this product including important technical information not provided in this document and warranty terms & conditions.

