# 4K HDR 1:8 1U Rack-Mount HDMI Splitter with Scaling Outputs, Audio Breakout & EDID Management

**SP-618** 



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

- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- 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-618

1x AC Power Cord (UK/US/EU/AU)

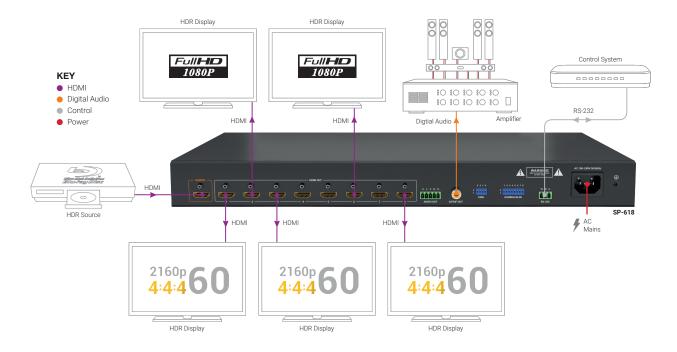
1x 3-pin Terminal Block

1x 5-pin Terminal Block

2x Mounting Brackets with screws

1x Quickstart Guide (this document)

### **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.



## IMPORTANT! Wiring Guidelines

- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on signal transmission which may limit performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- · WyreStorm recommends using pre-terminated HDMI due to the complexity of these connector types. Using pre-terminated cables will ensure that these connections are accurate and will not interfere with the performance of the product

### **RS-232 Wiring**

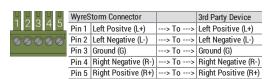
The device uses a 3-pin phoenix with no hardware flow control. Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionally to ensure that the correct connections can be made.



WyreStorm Connector			3rd Party Device
Pin 1	TX (Transmit)	> To>	RX (Receive)
Pin 2	RX (Receive)	> To>	TX (Transmit)
Pin 3	G (Ground)	> To>	G (Ground)

### **Audio Wiring**

This splitter contains audio connections for Analog Audio as well as S/PDIF digital.





### **Setup and Configuration**

#### **EDID** and Scaling

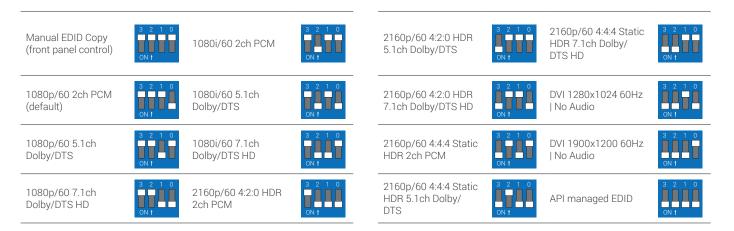
EDIDs can be configured to request the correct content from the source device. It is recommended that you set an EDID appropriate to the maximum capability of the source device then configure the video & audio output settings to match the connected TV, projector or AVR.

- When set to Auto-scale, the scaler will scan the EDID of the device connected to HDMI OUT 1, then dynamically adjust the output to the optimum
- When EDID settings are changed, ensure the source device is connected but powered off, then power on once all DIP switches have been set.
- Ensure that a display or AVR is connected and powered on before copying EDIDs or the copy will fail.
- Power to the scaler must be cycled (Off/On) after changing dip switches in order for the setting to take effect.



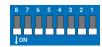
#### **Setting EDIDs**

- 1. Ensure the SP-618 and connected source devices are powered OFF
- 2. Set the desired switch configuration according to the illustrations below or the EDID table which is printed on the base of the unit.
- 3. Power ON the SP-618
- 4. Power ON the source device



Each HDMI output has its own corresponding scaling switch: HDMI output 1 is connected to switch 1, etc. The scaling function can be independently turned on or off for each output. Turn scaling on by placing the switch in the down (1) position. To turn scaling off, place the switch in the up (0) position.





## **Specifications**

Audio and Video			
Inputs	1x HDMI In: 19-pin type A		
Outputs	8x HDMI Out: 19-pin type A		
Video Encoding	Uncompressed 18Gbps		
End to End Latency	None		
Audio Formats	2ch PCM   Multichannel: LPCM and Up to DTS-X and Dolby Atmos		
	Video Resolution	HDMI	
	1920x1080p @60Hz 16bit	7m/23ft	
Video Decelutions (May)	3840x2160p @60Hz 10bit 4:2:2 HDR10/10+	5m/16ft	
Video Resolutions (Max)	3840x2160p @60Hz 12bit 4:2:0 Dolby Vision	5m/16ft	
	3840x2160p @50Hz 10bit 4:2:0 HLG	5m/16ft	
	4096x2160p @60Hz 8bit 4:4:4	5m/16ft	
Supported Standards	DCI   RGB   HDR10   HDR 10+   Dolby Vision   HLG   BT.2020		
Maximum Pixel Clock	600MHz		
Communication and Control			
HDMI	HDCP 2.2   EDID   DVI-D supported with adapter (not included)		
RS-232	1x 3-pin Phoenix connection		
Power			
Power Supply	100~240V AC 50/60Hz		
Max Power Consumption 60W			
Environmental			
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C)   10% ~ 90%, non-condensing		
Storage Temperature	-4°F to ~ 158°F (-20°C ~ +70°C)   10% ~ 90%, non-condensing		
Maximum BTU	205 BTU/hr		
Dimensions and Weight			
Rack Units/Wall Box	10		
Height	44.4mm/1.7in		
Width	438mm/17.25in		
Depth	184mm/7.25in		
Weight	2.17kg/4.80lbs		
Regulatory			
Safety and Emission	CE   FCC   RoHS   RCM   EAC		

### **Troubleshooting**

#### No or Poor-Quality Audio or Video (snow or noisy image)

- Verify that power is being supplied to the source and receiving device and they are not in standby mode
- · Verify that all HDMI connections are not loose and are functioning properly.
- · Verify that the output resolution of the source and display is supported by
- If transmitting 3D or 4K, verify that suitable HDMI cables are being used.

#### No or Intermittent 3rd party Device Control

· Verify that the RS-232 cables are properly terminated following the Wiring and Connections section.



# Troubleshooting Tips:

• WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice. **Warranty Information** WyreStorm Technologies LLC warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.