

# 4K60 8x8 Seamless Scaling HDMI Matrix with USB-C Support MX-0808-SCL

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

4K HDR 2160p 4:4:4 60 HDMI HDCP 2.2

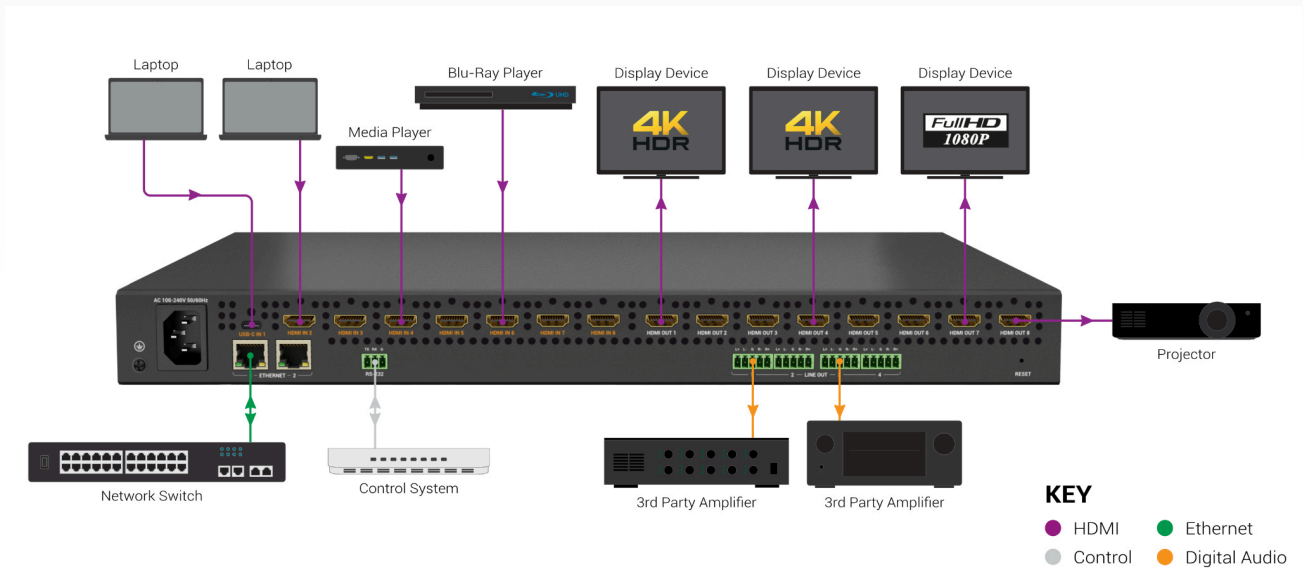
## ⚠️ IMPORTANT! Installation Requirements

- Read through the [Wiring and Connections](#) section for important wiring guidelines before creating or choosing pre-made cables.
- 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.

## In the Box

- 1 x Matrix Switcher
- 1 x AC Power Cord (US/UK/EU/AU)
- 1 x 2m USB 3.1 Type-C Cable
- 1 x 3.5mm 3-Pin Phoenix Male Connector
- 4 x 3.5mm 5-Pin Phoenix Male Connector
- 2 x 1U Rack Mounting Brackets with screws
- 1 x Quick Start Guide

## Basic Wiring Diagram



## Wiring and Connections

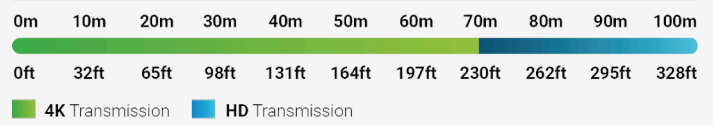
WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in its entirety before running or terminating any wires to ensure proper operation and to avoid damaging the equipment.

### HDMI/HDBaseT Wiring

#### 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 HDMI and Ethernet 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 type of category cable and length used can restrict the available video resolution. While Cat5e can be used, WyreStorm recommends using Cat6 or higher to ensure the highest content performance available. See Video Resolutions in the [Specifications](#) table before determining cable type and length.

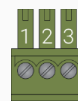
#### Cat6 Cable Performance Guide



WyreStorm recommends the use of shielded cable to minimize signal noise and interference

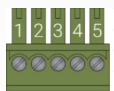
### RS-232 Wiring

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 functionality 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



WyreStorm Connector		3rd Party Device
Pin 1 Left Positive (L+)	---> To --->	Left Positive (L+)
Pin 2 Left Negative (L-)	---> To --->	Left Negative (L-)
Pin 3 Ground (G)	---> To --->	Ground (G)
Pin 4 Right Positive (R+)	---> To --->	Right Positive (R+)
Pin 5 Right Negative (R-)	---> To --->	Right Negative (R-)

## Accessing the Web UI

This matrix uses an Auto IP method to generate the initial IP address based on the network connections. By default the IP address is set to DHCP and will pull the IP address from a connected DHCP server. Should the network not contain a DHCP server the IP address will be generated based on the units mac address.

**The above operation will occur unless the IP Address setting in the web UI is set to static.**

1. Connect the matrix to the same network as a PC
2. Using a 3rd party network scanner, scan the network for the IP address of the matrix
3. Open a web browser and enter the IP Address of the matrix
4. Enter the password for the matrix. Default Password: admin

## 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 and HDBaseT connections are not loose and are functioning properly.
- Verify that the HDBaseT cable is properly terminated per the [HDMI/HDBaseT Wiring](#) section.
- Verify that the matrix, receiving device, and display support the output resolution of the source. Refer to **Video Resolutions** in the [Specifications](#) table for the max distance based on resolution.
- If transmitting 4K, verify that the HDMI cables used are 4K rated.

### No or Intermittent 3rd party Device Control

Verify that the IR cable(s) is properly terminated. See [IR TX/RX Wiring](#). Verify that the IR emitter is located near the IR receiver on the device.

### Troubleshooting Tips:

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

## Warranty Information

WyreStorm Technologies ProAV Corporation 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](http://wyrestorm.com) for more details on our limited product warranty.



# Specifications

Audio and Video	
<b>Inputs</b>	1x USB-C Input 7x HDMI In: 19-pin type A
<b>Outputs</b>	8x HDMI Out: 19-pin type A 4x 4-Pin Audio Terminal Port
<b>Video Encoding</b>	Uncompressed
<b>Encoding Data Rate</b>	18Gbps
<b>Audio Formats</b>	2ch PCM   Multichannel: LPCM and Up to DTS-X and Dolby Atmos
<b>Video Resolutions (Max)</b>	1920x1080p @60Hz 16bit 7m/23ft 3840x2160p @60Hz 10bit 4:2:2 HDR10/10+ 5m/16ft 3840x2160p @60Hz 12bit 4:2:0 Dolby Vision 5m/16ft 3840x2160p @50Hz 10bit 4:2:2 HLG 5m/16ft 4096x2160p @60Hz 8bit 4:4:4 5m/16ft
<b>Supported Standards</b>	DCI   RGB   HDR10   HDR10+   Dolby Vision   HLG   BT.2021
<b>Maximum Pixel Clock</b>	600MHz
Communication and Control	
<b>HDMI</b>	HDMI 2.0   HDCP 2.2/2.3   EDID   CEC
<b>RS-232</b>	1x 3-pin Phoenix
<b>LAN</b>	1x 8-pin RJ-45 for API control (Telnet, TLS, HTTP/HTTPS for webUI)
<b>Reset</b>	Via API, WebUI or Pin-Hole reset button
Power	
<b>Power Supply</b>	AC Power Supply 100V-240V
<b>Max Power Consumption</b>	128W (AV 68W, USB-C charging 60W)
Environmental	
<b>Operating Temperature</b>	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
<b>Storage Temperature</b>	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Dimensions and Weight	
<b>Rack Units/Wall Box</b>	1U
<b>Height</b>	43.5mm/1.71in
<b>Width</b>	440mm/17.32in
<b>Depth</b>	330mm/12.99in
<b>Weight</b>	4.5kg/9.92lbs
Regulatory	
<b>Safety and Emission</b>	CE   FCC   RoHS   RCM   EAC   UKCA