

# 4K60 8x12 Advanced Seamless Scaling HDMI Matrix

## MX-0812-SCL

**WyreStorm**  
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.

4K HDR 2160p 4:4:4 60 HDMI HDCP 2.3

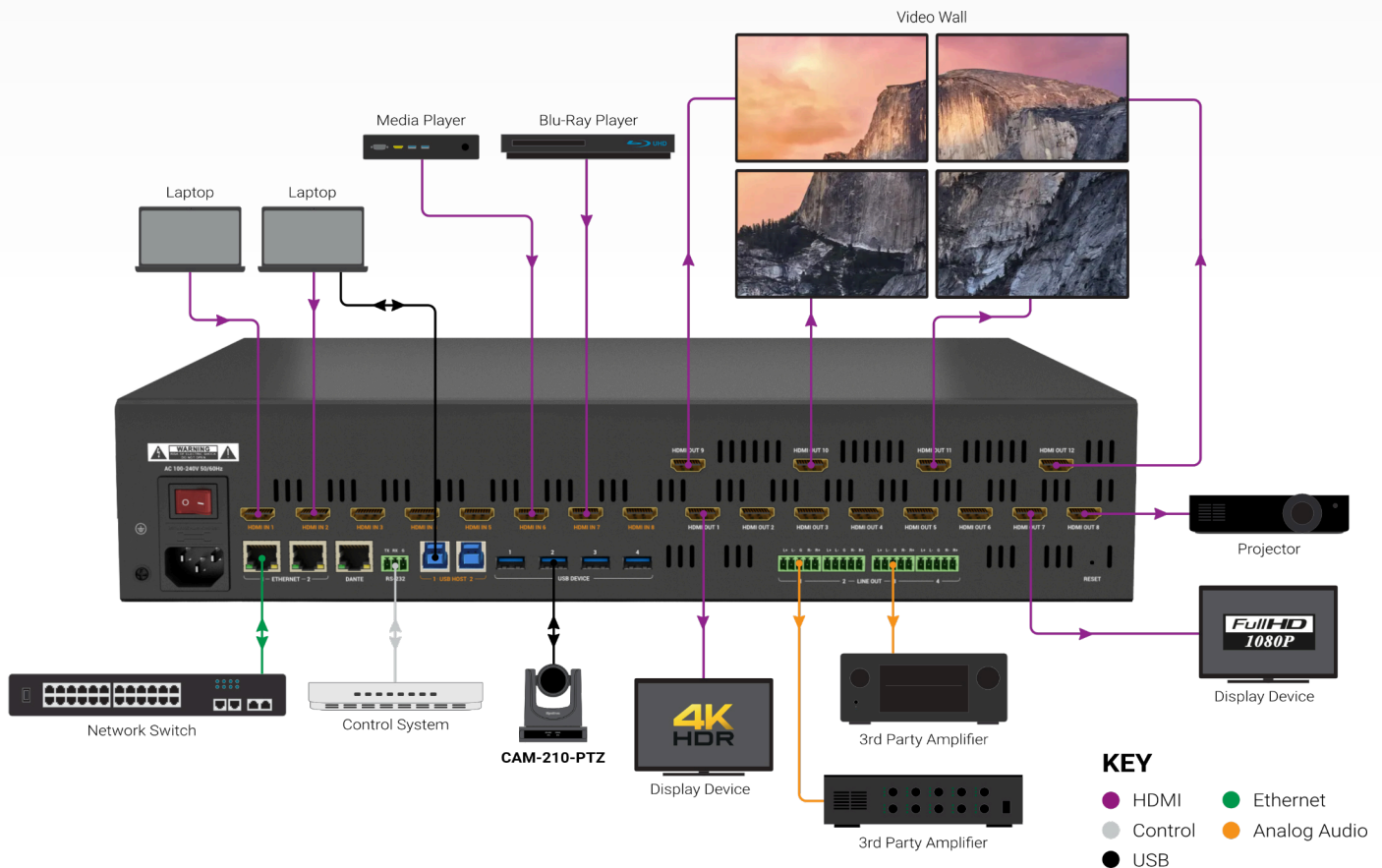
### ⚠️ IMPORTANT! Installation

- 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

- 1x MX-0812-SCL Matrix
- 1x AC Power Cord (US/UK/EU/AU)
- 1x 3.5mm 3-Pin Phoenix Male Connector
- 4x 3.5mm 5-Pin Phoenix Male Connector
- 2x Mounting Brackets (with Screws)
- 1x 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.

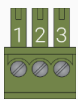
### HDMI/HDBaseT Wiring

#### IMPORTANT! Wiring Guidelines

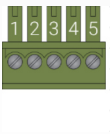
- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on HDMI transmission limiting performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using high quality HDMI cables such as WyreStorm Express to ensure the highest content performance available.

### 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. Check the LCD window on the front panel. The LCD window should show the IP address. The "info" button can also be pressed to show this information.
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 sources are not loose and are functioning properly.
- 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.



### 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	
Inputs	8x HDMI In: 19-pin type A 4x Dante Inputs
Outputs	12x HDMI Out: 19-pin type A 4x Dante Outputs 4x Analog Audio Line Level Outputs
Video Encoding	Uncompressed
Encoding Data Rate	18Gbps
Audio Formats	HDMI 2.0 Compliant
Video Resolutions (Max)	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
Supported Standards	DCI   RGB   HDR10   HDR10+   Dolby Vision   HLG   BT.2020
Maximum Pixel Clock	600MHz
Communication and Control	
HDMI	HDMI 2.0   HDCP 2.2/2.3   EDID   CEC
RS-232	1x 3-pin Phoenix
LAN	1x 8-pin RJ-45 for API control (Telnet, TLS, HTTP/HTTPS for webUI)
USB	2x USB Host Ports, 4x USB Device Ports
Reset	Via API, WebUI or Pin-Hole reset button
Power	
Power Supply	AC Power Supply 100V-240V
Max Power Consumption	120W
Environmental	
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Dimensions and Weight	
Rack Units/Wall Box	19 Inch x 2RU
Height	440mm (Without mounting brackets)
Width	88mm (Without mounting brackets)
Depth	362mm (Without mounting brackets)
Weight	6.63kg/14.62lbs
Regulatory	
Safety and Emission	CE   FCC   RCM   EAC   UKCA