



# WyreStorm EXP-MX-0404-H2 4K HDR 4 Input Matrix Switcher with 4 Scaling Outputs User Guide

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4K HDR 4 Input Matrix Switcher  
with 4 Scaling Outputs  
EXP-MX-0404-H2  
Quick start Guide



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



**HDCP**  
2.2

**4K**  
HDR

2160p  
4:4:4 60

**CEC**



**RS232**



## 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 guidelines before creating or choosing premade cables.

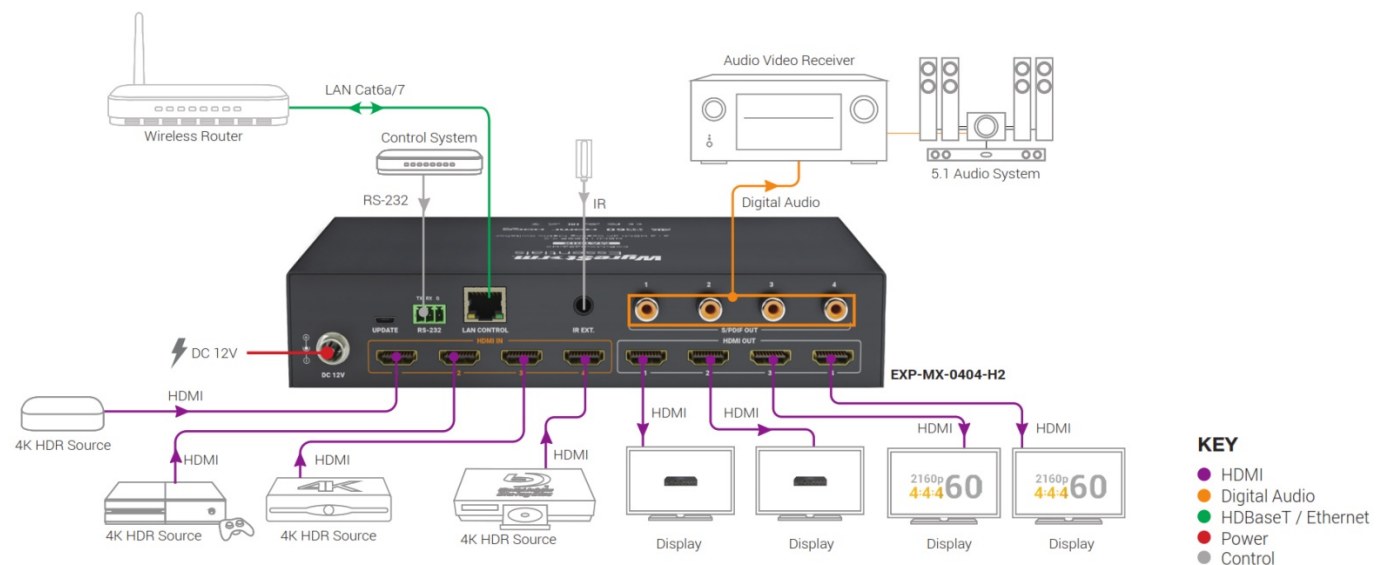
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## In The Box

- 1x EXP-MX-0404-H2 Matrix
- 1x 12V DC 1A power supply
- 1x 3.5mm 3-pin Terminal Block
- 1x Remote Control Handset (CR2025 Battery not Included)
- 2x Mounting Brackets

## 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 it's entirety before running or terminating the wires to ensure proper operation and to avoid damaging equipment.



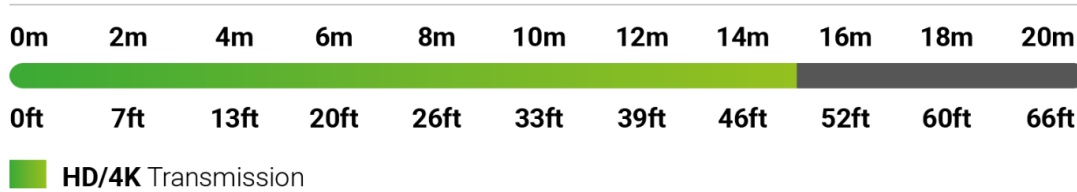
### IMPORTANT! Installation Requirements

- 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 cables 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.

#### HDMI Cable Performance Guide



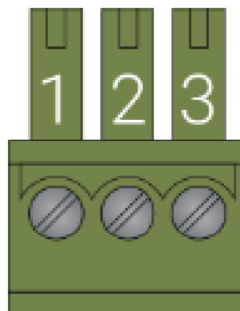
## Installation and Operation

1. Connect HDMI sources to INPUT ports 1-4 using good quality HDMI cables.
2. Connect an HDMI display device to the HDMI OUT ports of the switcher.
3. Turn the power on using the included remote handset, ensuring LED power indicators are fully lit on the front of the switcher. If not, check to make sure the HDMI cables are firmly connected.
4. To operate the switcher, press the SWITCH buttons on the front of the unit to scroll numerically through connected sources.
5. Alternatively, use the remote control handset to scroll forwards and backwards through the inputs or push buttons 1-4 corresponding to the connected sources. Furthermore, a RS-232 connection from a control system can be used to control the device.

## RS-232 Wiring

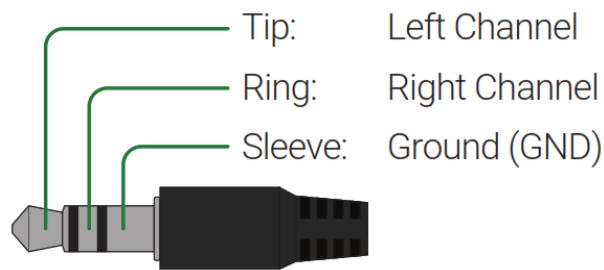
The EXP-MX-0402-H2 uses a 3-pin RS-232 with no hardware flow control.

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 functionality to ensure that the correct connections can be made. Refer to RS-232 Mode Settings for details on setting RS-232 modes.



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 Connections



## Setup and Configuration

## 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 HDMI connections are not loose and are functioning properly.
- 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.

## Specifications

Audio and Video		
Inputs	4x HDMI In: 19-pin type A	
Outputs	4x HDMI Out: 19-pin type A   1x IR Extension   4x S/PDIF Coaxial	
Audio Formats	HDMI: 2ch PCM   Multichannel: LPCM and up to DTS-X and Dolby Atmos Coaxial: 5.1ch surround sound	
Video Resolutions (Max)	Resolution	HDMI
	1920x1080p @60Hz 12bit 1920x1080p @60Hz 16bit 3840x2160p @24Hz 10bit 4:2:0 HDR 3840x2160p @30Hz 8bit 4:4:4 3840x2160p @60Hz 10bit 4:2:0 HDR 4096x2160p @60Hz 8bit 4:2:0 4096x2160p @60Hz 8bit 4:4:4	15m/49ft 7m/23ft 5m/16ft 7m/23ft 5m/16ft 7m/23ft 5m/16ft
Supported Standards	DCI   RGB   HDR   HDR10   Dolby Vision up to 30Hz   HLG   BT.2020   BT.2100	
Maximum Pixel Clock	600MHz	
Communication and Control		
HDMI	HDCP 2.2   DVI-D supported with adapter (not included)	
IR	1x Front Panel Sensor	
RS-232	1x 3-Pin Terminal Block	

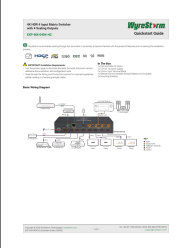
<b>Ethernet</b>	1x LAN: 8-pin RJ-45 Female   10/100 Mbps auto-negotiating   IP Control
<b>Power</b>	
<b>Power Supply</b>	5V DC 2A
<b>Max Power Consumption</b>	10W
<b>Environmental</b>	
<b>Operating Temperature</b>	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
<b>Storage Temperature</b>	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
<b>Maximum BTU</b>	17.06 BTU/hr
<b>Dimensions and Weight</b>	
<b>Rack Units/Wall Box</b>	<1U
<b>Height</b>	42mm/1.65in
<b>Width</b>	215mm/8.46in
<b>Depth</b>	120.2mm/4.73in
<b>Weight</b>	0.88kg/1.94lbs
<b>Regulatory</b>	
<b>Safety and Emission</b>	CE   FCC   RoHS   EAC

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

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## Documents / Resources

	<p><a href="#">WyreStorm EXP-MX-0404-H2 4K HDR 4 Input Matrix Switcher with 4 Scaling Outputs [pdf]</a></p> <p>User Guide EXP-MX-0404-H2, 4K HDR 4 Input Matrix Switcher with 4 Scaling Outputs</p>
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## References

- [WyreStorm - Professional Audio Visual Solution Provider](#)