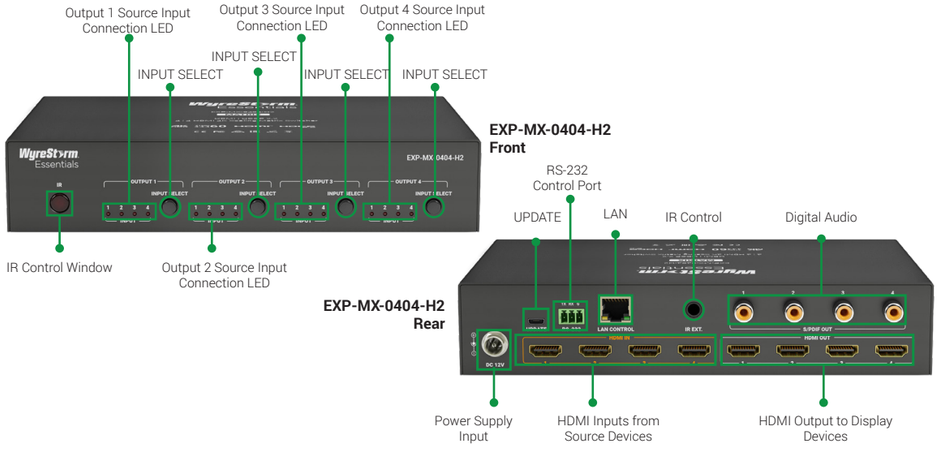
4K HDR 4 Input Matrix Switcher with 4 Scaling Outputs

EXP-MX-0404-H2

WyreStorm Essentials

Specification Sheet



HDCP 2.2 | 4K HDR | 2160p 4:4:4 60 | CEC | RS232

WyreStorm - Powerful. Reliable. Simple.

Introduction

The WyreStorm EXP-MX-0404-H2 is a powerful plug and play 4K matrix switcher solution. With 18Gbps pure HDMI support, the EXP-MX-404-H2 allows up to four UHD 4K sources to be independently routed to four UHD displays. Each Output has the capability to scale 4K content down to connected 1080p displays without affecting the 4K source. Furthermore, source audio breakout via digital coax supports to 5.1, which can be sent to an AVR for audio distribution. Additionally, the EXP-MX-0404-H2 boasts an enhance API, giving the user full control over RS-232 or IP. Lastly, the EXP-MX-0404-H2 supports automatic and time delayed CEC, powering displays on when a new source is detected and off when source sink isn't present, making the EXP-MX-0404-H2 a powerful, complete solution.

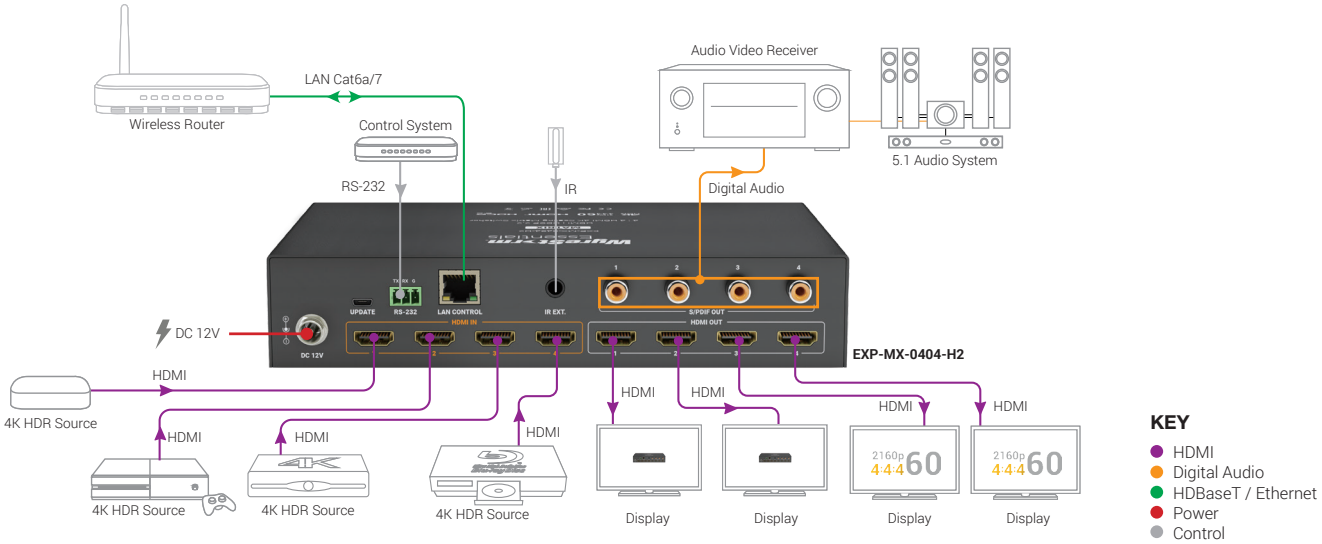
Key Features

- SCALING 4K TO 1080P AUTOMATICALLY
- Like the EXP-MX-0402-H2, all outputs of the EXP-MX-0404-H2's are built with an effective scaler, taking in a 4K signal and downscales the content to 1080p, allowing a mix of 4K and 1080p screens to both show at their highest potential without affecting HDMI handshake or 4K source.
- NEW CONTROL FEATURES
- In addition to the control features found in the EXP-MX-0402-H2, the EXP-MX-0404-H2 adds access to its API via LAN. Equipped with an AutoIP function, the EXP-MX-0404-H2 can connect to a DHCP server and be issued an IP address, but if one is not available, it can be reached with its predefined IP address, saving a user time and frustration.
- RESIDENTIAL POWER HOUSE
- The EXP-MX-0404-H2 has residential users in mind with its audio and CEC capabilities. S/PDIF outputs are built in to supply up to 5.1 audio an AVR, while CEC triggering powers displays on when a source is detected and off when a source has timed out making for a seamless user experience.
- HDMI 2.0 MAXED OUT!
- Sporting an 18Gbps HDMI backplane, the EXP-MX-0402-H2 shares big brother bandwidths, supporting all UHD video signals up to and including 2160p 4:4:4/60, and high frame-rate HDR 12bit 4:2:2 up to 60Hz, along with multichannel audio up to DTS:X and Dolby Atmos
- Routes up to four 4K HDR HDMI sources to four 4K HDR display devices such as a TV or digital projector
- Supports 4K@60Hz 10bit 4:2:0 | 4:4:4 and HDR@24Hz 10bit BT.2020
- HDMI Inputs and HDMI outputs support bandwidths of up to 18Gbps
- Fully HDCP 2.2 compliant
- HDR and Dolby Vision support
- Each HDMI output supports scaling down to 1080p without affecting 4K source content
- Supports coaxial S/PDIF audio de-embed from all outputs.
- Rich control options including IR, push botton controls LAN and RS-232 control.
- Support of timed CEC trigger and time delay on both outputs when input is not detected on selected output.

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

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	15m/49ft
	1920x1080p @60Hz 16bit	7m/23ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	5m/16ft
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft
	3840x2160p @60Hz 10bit 4:2:0 HDR	5m/16ft
	4096x2160p @60Hz 8bit 4:2:0	7m/23ft
	4096x2160p @60Hz 8bit 4:4:4	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	
Ethernet	1x LAN: 8-pin RJ-45 Female | 10/100 Mbps auto-negotiating | IP Control	
Power		
Power Supply	5V DC 2A	
Max Power Consumption	10W	
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	
Maximum BTU	17.06 BTU/hr	
Dimensions and Weight		
Rack Units/Wall Box	<1U	
Height	42mm/1.65in	
Width	215mm/8.46in	
Depth	120.2mm/4.73in	
Weight	0.88kg/1.94lbs	
Regulatory		
Safety and Emission	CE | FCC | RoHS | EAC	

Right Product for the Right Application.