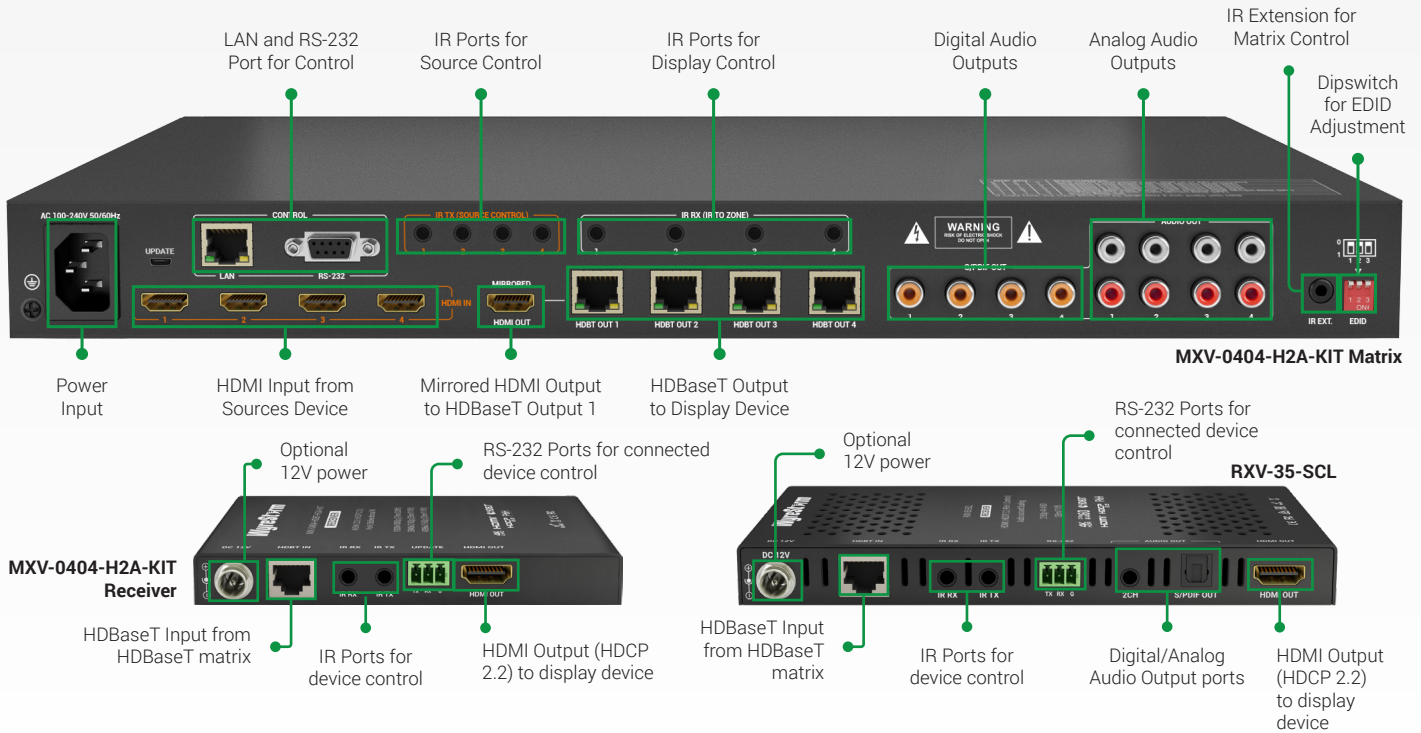


# 4x4 4K HDR HDBaseT Matrix Kit with HDCP 2.2

## MXV-0404-H2A-KIT



## Specification Sheet



WyreStorm - Powerful. Reliable. Simple.

## Introduction

The latest in WyreStorm's H2 matrix line up gets an upgrade in the form of WyreStorm's light compression technology meaning the MXV-0404-H2A-KIT can handle HDMI content up to 4K/60 4:4:4 including HDR. CEC triggering for connected screens and A/V mute function enhances the offering for the modern home or commercial installation. The MXV-0404-H2A-KIT also lets you do even more with your audio with internal audio switching allowing de-embedded audio via S/PDIF and analog stereo ports offering audio breakout from source or HDBaseT output.

## Key Features

- 4x4 HDBaseT™ 4K matrix switcher supporting:
  - Content up to 4K/60 4:4:4 & RGB 8-bit
  - The latest HDR standards, including HDR-10, HLG and Dolby Vision.
  - HDCP 2.2 encryption technology ensuring compatibility with the latest 4K UHD content and sources
  - HD Multichannel audio up to DTS:X and Dolby Atmos to all outputs
- HDMI Inputs HDBaseT outputs and mirrored HDMI port supports bandwidths of up to 18Gbps
- Automatic (signal sensing) or manual (API operated) CEC power triggering of all connected screens or projectors (CEC compatibility required)
- Assignable audio outputs allow audio to be de-embedded from sources or HDBaseT™ output via mirrored stereo RCA and S/PDIF ports
- Mirrored HDMI output allows connection of a local AVR, local screen or additional display over distance via an HDBaseT™ extender or hybrid optical HDMI cable
- API triggered A/V mute allows a signal to be deactivated to any zone.
- 4x PoH receivers included - a complete kit for quicker, easier and more reliable installation and AV distribution straight out of the box
- Can be combined with WyreStorm EXP-CON-DAC-D digital audio converter to downmix Dolby Digital 5.1 content to mix stereo and surround sound zones
- SmartEDID™ removes conflict when mixing 1080p & 4K displays by dynamically detecting display/source capabilities and automatically requesting the highest possible resolution for all displays
- Additional EDID management through DIP switches for global setting or via WebUI for independent management of EDID per source
- Central RS-232 control compatible with WyreStorm Enado and other major third party control systems with full integration protocols available for Crestron, AMX, RTI & Control4
- Embedded WebUI allows installer setup and configuration and provides switching interface

## In the Box

- 1x MXV-0404-H2A-KIT Matrix
- 2x Standard HDBaseT Receivers
- 2x Scaling HDBaseT Receivers
- 1x AC Power Cord with EU/US/UK/AU pins
- 1x IR Remote (CR2025 Battery not Included)
- 4x IR Emitters

- 4x IR Receivers
- 1x IR Receiver for Matrix IR Ext.
- 2x Matrix Mounting Brackets with screws
- 8x Receiver Mounting Brackets with screws (2 per RX)
- 1x Quickstart Guide

# Specifications

	Matrix	Receiver		
<b>Audio and Video</b>				
<b>Inputs</b>	4x HDMI In: 19-pin type A	1x HDBT In: 8-pin RJ-45 Female		
<b>Outputs</b>	4x Audio Out: RCA Female Stereo (L/R) 4x S/PDIF Out: RCA Female 4x HDBT Out: 8-pin RJ-45 Female	1x HDMI Out: 19-pin type A		
<b>Output Video Encoding</b>	HDBaseT Class B			
<b>Encoding Data Rate</b>	9.2Gbps			
<b>End to End Latency (Max)</b>	10µs (micro seconds)			
<b>Audio Formats</b>	Analog: 2ch Analog   S/PDIF: 2ch LPCM   Dolby Digital/DTS up to 5.1ch HDMI: 2ch LPCM   Multichannel up to Dolby Atmos and DTS-X			
<b>Video Resolutions (Max)</b>	<b>Video Resolution</b>	<b>HDMI</b>	<b>Cat6</b>	<b>Cat6a/7</b>
	1920x1080p @60Hz 12bit	15m/49ft	60m/197ft	70m/230ft
	1920x1080p @60Hz 16bit	7m/23ft	35m/115ft	40m/131ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	3m/10ft	35m/115ft	40m/131ft
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft Input 15m/49ft Output	35m/115ft	40m/131ft
	3840x2160p @60Hz 10bit 4:2:0 HDR	3m/10ft	35m/115ft	40m/131ft
	4096x2160p @60Hz 8bit 4:2:0	7m/23ft	35m/115ft	40m/131ft
	4096x2160p @60Hz 8bit 4:4:4	3m/10ft	35m/115ft	40m/131ft
Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference				
<b>Supported Standards</b>	DCI   RGB   HDR   HDR10   Dolby Vision up to 30Hz   HLG   BT.2020   BT.2100			
<b>Maximum Pixel Clock</b>	HDMI: 600MHz   HDBaseT: 297MHz			
<b>Communication and Control</b>				
<b>HDMI</b>	HDMI 2.0   HDCP 2.2   EDID   CEC   DVI/D supported with adapter (not included)			
<b>HDBaseT</b>	HDMI 2.0   HDCP 2.2   EDID   CEC   1-way PoH   Bidirectional IR			
<b>CEC</b>	CEC power triggering for connected screens – Requires CEC compatibility			
<b>IR</b>	1x IR Ext: 3.5mm (1/8in) TRS Stereo 4x IR RX: 3.5mm (1/8in) TRS Stereo 4x IR TX: 3.5mm (1/8in) TS Mono Bidirectional over HDBaseT	1x IR TX: 3.5mm (1/8in) TS Mono 1x IR RX: 3.5mm (1/8in) TRS Stereo Bidirectional over HDBaseT		
<b>RS-232</b>	1x RS-232: 9-pin DB9 Female	1x RS-232: 3-pin Terminal Block - 3.5mm		
<b>Ethernet</b>	1x LAN: 8-pin RJ-45 Female	N/A		
<b>Power</b>				
<b>Power Supply</b>	100~240V AC 50/60Hz	18V DC (Optional)		
<b>PoH</b>	1-way Matrix to Receiver			
<b>Max Power Consumption</b>	85W with 4 RXs connected via PoH	8W with External PSU each receiver 12.5W via PoH each receiver		
<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/hr</b>	290 BTU/hr	28 BTU/hr with External PSU each receiver 43 BTU/hr via PoH each receiver		
<b>Dimensions and Weight</b>				
<b>Rack Units/Wall Box</b>	1U	<1U		
<b>Height</b>	43.5mm/1.72in	15.2mm/0.6in		
<b>Width</b>	440mm/17.33in	136.4mm/5.38in		
<b>Depth</b>	300mm/11.82in	74.2mm/2.93in		
<b>Weight</b>	4.06kg/8.93lbs	0.24kg/0.53lbs		
<b>Regulatory</b>				
<b>Safety and Emission</b>	CE   FCC   RoHS   RCM			

