4x4 4K HDR HDBaseT Matrix Kit with HDCP 2.2
MXV-0404-H2A-KIT

**Introduction**

The latest in WyreStorm's H2 matrix line ups 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
- Capable of transmitting content to 35m/115ft over Cat6 cable or 1080p/60Hz to 70m/230ft over HDBaseT using light compression
- 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
- HDBaseT™ technology handles video, audio, bidirectional IR and PoH to display zones along a single Cat6 cable
- 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
- Flexible control options – front panel buttons, infrared remote control, local IR, RS-232, Telnet or WebUI
- 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
4x MXV-0404-H2A-KIT Receivers
1 x AC Power Cord with EU pins
1 x AC Power Cord with US pins
1 x AC Power Cord with UK pins
1 x AC Power Cord with AU pins
1 x IR Remote
4x IR Emitter
4x IR Receiver
1 x 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**

<table>
<thead>
<tr>
<th>Audio and Video</th>
<th>Receiver</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs</strong></td>
<td>1x HDMI In: 19-pin type A</td>
</tr>
<tr>
<td><strong>Outputs</strong></td>
<td>4x HDMI Out: RCA Female Stereo (L/R)</td>
</tr>
<tr>
<td><strong>Output Video Encoding</strong></td>
<td>HDBaseT Class B</td>
</tr>
<tr>
<td><strong>Encoding Data Rate</strong></td>
<td>9.2Gbps</td>
</tr>
<tr>
<td><strong>End to End Latency (Max)</strong></td>
<td>10μs (micro seconds)</td>
</tr>
<tr>
<td><strong>Audio Formats</strong></td>
<td>Analog: 2ch Analog</td>
</tr>
<tr>
<td></td>
<td>HDMI: 2ch LPCM</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Video Resolution</th>
<th>HDMI</th>
<th>Cat6</th>
<th>Cat6a/7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1080p @60Hz 12bit</td>
<td>15m/49ft</td>
<td>60m/197ft</td>
<td>70m/230ft</td>
</tr>
<tr>
<td>1920x1080p @60Hz 16bit</td>
<td>7m/23ft</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
<tr>
<td>3840x2160p @24Hz 10bit 4:2:0 HDR</td>
<td>3m/10ft</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
<tr>
<td>3840x2160p @30Hz 8bit 4:4:4</td>
<td>7m/23ft Input</td>
<td>15m/49ft Output</td>
<td>35m/115ft</td>
</tr>
<tr>
<td>3840x2160p @60Hz 10bit 4:2:0 HDR</td>
<td>3m/10ft</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:2:0</td>
<td>7m/23ft</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:4:4</td>
<td>3m/10ft</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
</tbody>
</table>

*Note: WyreStorm recommends the use of shielded category cable to minimize signal noise and interference*

**Supported Standards**

DCI | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100

**Maximum Pixel Clock**

HDMI: 600MHz | HDBaseT: 297MHz

**Communication and Control**

<table>
<thead>
<tr>
<th>HDMI</th>
<th>HDBaseT</th>
<th>CEC</th>
<th>IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI 2.0</td>
<td>HDCP 2.2</td>
<td>EDID</td>
<td>CEC</td>
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<td>HDMI 2.0</td>
<td>HDCP 2.2</td>
<td>EDID</td>
<td>CEC</td>
</tr>
</tbody>
</table>

**IR**

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

**RS-232**

1x RS-232: 9-pin DB9 Female
1x RS-232: 3-pin Terminal Block - 3.5mm

**Ethernet**

1x LAN: 8-pin RJ-45 Female
N/A

**Power**

100~240V AC 50/60Hz
18V DC (Optional)

1-way Matrix to Receiver

**Max Power Consumption**

85W with 4 RXs connected via PoH
8W with External PSU each receiver
12.5W via PoH each receiver

**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**

<table>
<thead>
<tr>
<th>Rack Units/Wall Box</th>
<th>Height</th>
<th>Width</th>
<th>Depth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1U</td>
<td>43.5mm/1.72in</td>
<td>15.2mm/0.6in</td>
<td>74.2mm/2.93in</td>
<td>0.24kg/0.53lbs</td>
</tr>
</tbody>
</table>

**Regulatory**

CE | FCC | RoHS | RCM
Right Product for the Right Application.

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