**Introduction**

4K HDR HDMI-Over-HDBaseT Receiver (2160p 4:4:4/60: 70m/230ft | 1080p: 100m/328ft). Consumer HDMI content is now breaking through the once comfortable HDBaseT “ceiling” of 10Gbps, with HFR (High Frame Rate). HDR is here already in the form of Blu-ray, Satellite & Cable (HLG) and gaming content. The RXV-70-4K-G2 is the perfect companion for WyreStorm’s MXV line-up of matrices also when distances of under 70 meters are required. This is the perfect solution for the TX-H2X-VLC modular card, found in the H2XC line.

**Key Features**

- Uses WyreStorm’s proprietary compression technology for lossless transmission of 4K HDR content, without latency
- Reliable HDBaseT-HDMI conversion over distance using single Cat6 cable
- 4K UHD signals up to 70m/230ft (2160p 4:4:4 60Hz 8-bit) and 2K signals up to 100m/230ft (1200p 60Hz 16-bit)
- Supports HDMI2.0 video standard up to 18Gbps
- Compatible with HDR standards including HDR-10, HDR-10+, HLG and Dolby Vision (Dolby Vision supported up to 30Hz)
- Class A HDBaseT™ supporting the transmission of video, multichannel audio, bidirectional control and PoH
- Powered remotely via PoH from MXV matrix
- HDCP 2.2 compatibility
- Bidirectional IR supported with both IR TX & RX ports
- RS-232 port for routed 2-way serial communication
- LED indication for HDCP presence within signal and transmission link between devices
- Ventilated steel chassis
- Conforms to IEEE-568B standards
- Compact design for convenient and unobtrusive installation
- Wall mounting brackets and IR accessories included

**In the Box**

1x RXV-70-4K-G2 Receiver  
1x Wide-band IR Emitter  
1x Wide-band IR Receiver (30-50KHz)  
2x Mounting Brackets  
1x 3-pin Terminal Block  
1x Quickstart Guide (this document)
### Specifications

#### Audio and Video

**Inputs**
1x HDBT In: 8-pin RJ-45 Female

**Outputs**
1x HDMI Out: 19-pin type A

**Output Video Encoding**
HDBaseT Class A

**Encoding Data Rate**
9.2Gbps

**End to End Latency (Max)**
10μs (micro seconds)

**Audio Formats**
HDMI: 2ch LPCM | Multichannel up to Dolby Atmos and DTS-X

#### Video Resolutions (Max)

<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>100m/328ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>1920x1080p @120Hz 12bit</td>
<td>7m/22ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>1920x1080p @24Hz 10bit 4:2:0 HDR</td>
<td>15m/49ft</td>
<td>100m/328ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>1920x1080p @30Hz 8bit 4:4:4</td>
<td>7m/22ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>3840x2160p @60Hz 10bit 4:2:0 HDR</td>
<td>5m/16ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>3840x2160p @60Hz 12bit 4:2:2 HDR</td>
<td>5m/16ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:2:0</td>
<td>7m/22ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
</tbody>
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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

**HDMI**
- HDMI 2.0 | HDCP 2.2 | EDID | CEC | DVI/D supported with adapter (not included)

**HDBaseT**
- HDMI 2.0 | HDCP 2.2 | EDID | CEC | 1-way PoH | Bidirectional IR

**CEC**
- CEC power triggering for connected screens – Requires CEC compatibility

**IR**
- 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: 3-pin Terminal Block - 3.5mm

#### Power

**Power Supply**
- 18V DC (Optional)

**PoH**
- 1-way Matrix to Receiver

**Max Power Consumption**
- 12.42W

#### Environmental

**Operating Temperature**
- 0 ~ +45°C (32 ~ +113 °F), 10% ~ 90%, non-condensing

**Storage Temperature**
- -20 ~ +70°C (-4 ~ +158 °F), 10% ~ 90%, non-condensing

**Maximum BTU/hr**
- 43 BTU/hr

#### Dimensions and Weight

**Rack Units/Wall Box**
- <1U

**Height**
- 15.2mm/0.6in

**Width**
- 136.4mm/5.38in

**Depth**
- 74.2mm/2.93in

**Weight**
- 0.24kg/0.53lbs

#### Regulatory

**Safety and Emission**
- 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.