4K HDR 4:4:4 60Hz HDBaseT™ Receiver with 2-way IR and PoH (4K: 70m/230ft)

**RXV-70-4K-G2 v1**

**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 HDMI 2.0 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

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
<th>Output Video Encoding</th>
<th>Encoding Data Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x HDBT In: 8-pin RJ-45 Female</td>
<td>1x HDMI Out: 19-pin type A</td>
<td>HDBaseT Class A</td>
<td>9.2Gbps</td>
</tr>
</tbody>
</table>

| 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>3840x2160p @24Hz 10bit 4:2:0 HDR</td>
<td>15m/49ft</td>
<td>100m/328ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>3840x2160p @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>
</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

### 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.