4K HDR 4:4:4 60Hz HDBaseT™ Receiver with 2-way IR and PoH (4K: 35m/115ft)

**RXV-35-4K**

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**WyreStorm - Because the Technology Matters.**

**Introduction**

4K HDR HDMI-Over-HDBaseT Receiver (2160p 4:4:4/60: 35m/115ft; 1080p: 70m/230ft). 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-35-4K is the perfect companion for WyreStorm’s MXV line-up of matrices also when distances of under 35 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 35m/131ft (2160p 4:4:4 60Hz 8-bit) and 2K signals up to 70m/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 B 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-35-4K Receiver
1x IR Emitter
1x IR Receiver

2x Mounting Brackets
1x 3-pin Screw Down Phoenix Connector
1x Quickstart Guide
Specifications

Audio and Video

Inputs
1x HDBaseT In: 8-pin RJ-45 Female

Outputs
1x HDMI Out: 19-pin type A

Input Video Encoding
HDBaseT Class B

Encoding Data Rate
9.2Gbps

End to End Latency
10μs (micro seconds)

Audio Formats
Analog: 2ch analog
S/PDIF: 2ch LPCM | Dolby Digital/CTS up to 5.1ch
HDMI: 2ch LPCM | Multichannel up to DTS-X and Dolby Atmos

<table>
<thead>
<tr>
<th>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>60m/197ft</td>
<td>70m/230ft</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 15m/49ft Output</td>
<td>35m/115ft</td>
<td>40m/131ft</td>
</tr>
<tr>
<td>3840x2160p @60Hz 10bit 4:2:0 HDR</td>
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<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>
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<tr>
<td>4096x2160p @60Hz 8bit 4:4:4</td>
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</tr>
</tbody>
</table>

Video Resolutions (Max)

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 to Receiver | Bidirectional IR

IR
1x IR RX 3.5mm (1/8in) TRS Stereo | 1x IR TX: 3.5mm (1/8in) TS Mono | Bidirectional over HDBaseT

C-C22
1x RS-232: 3-pin Terminal Block - 3.5mm

CEC
CEC power triggering for connected screens - Requires CEC compatibility

Power

Power Supply
18V DC (Optional)

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
43 BTU/hr

Dimensions and Weight

Rack Units | Wall Box
<1U

Height With | Without Feet
15.2mm/0.6in

Width With | Without Brackets
136mm/5.38in

Depth With | Without Handles
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.