4K HDR HDMI-Over-HDBaseT Receiver with ARC & Audio Return
(2160p 4:4:4/60: 70m/230ft | 1080p: 100m/328ft)
RXV-70-4K-ARC

**Introduction**
With high-framerate HDR-10 and HLG technology exceeding the capabilities of HDBaseT, WyreStorm has implemented light-compression technology. The RXV-70-4K-ARC forms part of this new generation of signal extension technology and furthermore, frees the 5.1 audio from an ARC compatible TV and send back to an H2XC matrix over HDBaseT; an optical S/PDIF input is also present for sending digital audio signals.

**Key Features**
- Uses WyreStorm’s proprietary compression technology for lossless transmission of 4K HDR content, without latency
- Supports ARC via HDMI or optical input for audio return over HDBaseT
- Selector switch for ARC (via HDMI) or Optical Return via Toslink
- Reliable HDBaseT-HDMI conversion over distance using single Cat6 cable
- 4K HDR signals up to 70m/230ft (2160p 4:4:4 60Hz 8-bit) and 2K signals up to 140m/459ft (1200p 60Hz)
- 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, Ethernet, bidirectional control and PoH
- Powered remotely via PoH from H2XC matrix
- Bidirectional IR supported with both IR TX & RX ports
- RS-232 port for routed 2-way serial communication
- Supports Ethernet pass-through from matrix (Class A HDBaseT transmission only)
- LED indication for HDCP presence within signal and transmission link between devices
- Ventilated steel chassis
- HDCP 2.2 compatible
- Compact design for convenient and unobtrusive installation
- Wall mounting brackets and IR accessories included

**In the Box**
1x RXV-70-4K-ARC Receiver
1x IR Emitter
1x IR Receiver
1x 3-pin Terminal Block
2x Mounting Brackets
1x Quickstart Guide

WyreStorm - Because the Technology Matters.
Specifications

Audio and Video

Inputs
- 1x S/PDIF In: TOSLINK (Digital Optical)
- 1x HDBT In: 8-pin RJ-45 Female

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

Video Encoding
HDBaseT Class A

Encoding Data Rate
10Gbps

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

Audio Formats
2ch PCM | Multichannel LPCM and Up to DTS-X and Dolby Atmos

<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>3840x2160p @24Hz 10bit 4:2:0 HDR</td>
<td>7m/23ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>3840x2160p @30Hz 8bit 4:4:4</td>
<td>7m/23ft</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>3m/10ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:2:0</td>
<td>7m/23ft</td>
<td>70m/230ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>4096x2160p @60Hz 8bit 4:4:4</td>
<td>3m/10ft</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.

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
- HDCP 2.2 | EDID | CEC | DVI-D supported with adapter (not included)

HDBaseT
- HDMI | HDCP 2.2 | EDID | CEC | 1-way PoH to Receiver | Bidirectional IR

CEC
Power Triggering from Matrix | Requires CEC Compatibility at Display

Ethernet
1x Ethernet: 8-pin RJ-45 Female | Bidirectional over HDBaseT

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

RS-232
1x RS-232: 3-pin Phoenix | Bidirectional over HDBaseT

ARC (Audio Return Channel)
Supports True ARC (via HDMI) or S/PDIF optical return from display to the matrix over HDBaseT

Power

Power Supply
18V DC (Optional)

PoH
48V 15.4W

Max Power Consumption
12.5W

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

Maximum BTU
43 BTU/hr

Dimensions and Weight

Rack Units/Wall Box
<1U

Height
21mm/0.83in

Width
195mm/7.68in

Depth
94.8mm/3.74in

Weight
0.4kg/0.88lbs

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.