**Introduction**

Part of the latest generation of WyreStorm 4K extenders for the latest generation of 4K HDR content, the EX-35-H2 features dynamic compression technology to enable high frame rate HDR-10 and HLG content to be transmitted over standard 10Gbps HDBaseT, both visually losslessly and without latency.

**Key Features**

- 4K UltraHD extender set capable of transmitting AV content over medium distances using single cable Cat6 cable
- HDBaseT™ Class B transmission of 4K HDR up to 35m/115ft and 1080p @60Hz 36bit up to 70m/230ft
- Full UHD 4K transmission supporting HDMI 2.0 video standards
- Supports all high definition resolutions including 4K UHD @30hz 4:4:4 24bit | 4K HDR @24Hz 4:2:0 10bit (BT.2020) - see specifications for details
- Revised chipset increases compatibility with new 4K UHD source devices
- Transmits discreet wide-band bidirectional IR/RS-232 control signals together with HDMI over a single Cat5e/6 cable
- Low profile chassis of 15mm for easier, more convenient installations behind screens at display zones
- Supports 2ch PCM and 7.1 multichannel audio up to DTS-X and Dolby Atmos
- 2-way PoH (Power over HDBaseT™) enables either transmitter or receiver to be remotely powered by the other locally powered so mains power connectivity is not required at both source and display location
- HDCP 2.2 compliant
- 3D compatible
- Switchable RS-232 function mode on transmitter and receiver for firmware update
- Threaded bushings allow use of both standard and locking DC power plugs
- Visual LED indication for power, display connection signal status, HDBaseT™ link, and HDCP presence in signal
- Automatically adjusts feedback, equalization and amplification of signal for easy installation
- Energy efficient universal power supply included

**In the Box**

1x EX-70-H2 Transmitter  
1x EX-70-H2 Receiver  
1x IR Emitter  
1x IR Receiver  
2x 3-pin Terminal Block  
1x 18V DC 1A Power Supply (US/UK/EU)  
4x Mounting Brackets (2x for TX | 2x for RX)  
1x Quickstart Guide

*Note:* This product has been released in multiple versions which have different feature sets and/or chassis designs. The differences are identified throughout this document where applicable.
## Specifications

### Audio and Video

#### Inputs
- 1x HDMI In: 19-pin type A

#### Outputs
- 1x HDBT Out: 8-pin RJ-45 Female
- 1x HDMI Loop Out: 19-pin type A

#### Output Video Encoding
- HDBaseT Class A

#### Encoding Data Rate
- 9.2 Gbps

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

#### Audio Formats
- 2ch PCM | Multichannel up to DTS-X and Dolby Atmos

#### 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 @60Hz 16bit</td>
<td>7m/23ft</td>
<td>100m/328ft</td>
<td>100m/328ft</td>
</tr>
<tr>
<td>3840x2160p @24Hz 10bit 4:2:0 HDR</td>
<td>3m/10ft</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>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>7m/23ft</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 | Dolby Vision @ 30Hz | HLG | HDR-10

#### Maximum Pixel Clock
- HDMI: 600MHz | HDBaseT: 297MHz

#### Communication and Control

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

##### HDBaseT
- HDMI | HDCP 2.2 | EDID | 2-way PoH | Bidirectional IR, RS-232, and Ethernet

##### CEC
- CEC Pass-through – Requires CEC compatibility between source and display

##### IR
- 1x IR TX: 3.5mm (1/8in) TS Mono | 1x IR RX: 3.5mm (1/8in) TRS Stereo

##### RS-232
- 1x RS-232: 3-pin Terminal Block

##### Ethernet
- 1x Ethernet: 8-pin RJ-45 Female

#### Power

##### Power Supply
- 18V DC 1A

##### Max Power Consumption
- 4.68W | 6.84W

#### 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
- 16 BTU/hr | 24 BTU/hr

#### 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>&lt;1U</td>
<td>21mm/0.83in</td>
<td>210mm/8.27in</td>
<td>94.8mm/3.74in</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.