4K UHD HDBaseT™ Scaling Receiver, with Downscaling, Dual Ethernet Ports and ARC (4K: 70m/230ft | 1080p: 100m/328ft)
RX-70-4K-SCL

**Introduction**

A vital addition to any HDBaseT™ distribution system, the RX-70-4K-SCL scales incoming video content to best suit the display device to which it is attached. This allows the best quality video content to be sent throughout the system, avoiding EDID clashes or older display technology compromising the rest of the system.

**Key Features**

- Scales content sent over HDBaseT™ to match the capability of connected screen or projector
- 4K UHD content @60Hz 4:2:0 scaled to as low as 576P
- Upscales incoming content to 4K 60Hz 4:4:4
- Sends ARC via HDMI along HDBaseT™
- Analog and S/PDIF output enables de-embedding of audio to send to local audio system
- Resolves issue with mixing 4K & 2K screens in an installation by downscaling UHD 4K content to 1080/720p
- Also up-scales any incoming content to 4K/60 4:4:4 8-Bit
- Receives 4K UHD @60Hz 4:2:0 or HDR @24Hz at 70m/230ft and 1080p content at 100m/328ft
- Scaling, ARC, CEC & Audio Out controllable via HDBaseT™/Ethernet link by Telnet
- S/PDIF and Analog audio breakout
- Dual Ethernet ports
- Bidirectional IR and RS-232
- HDCP 2.2 compliant

**In the Box**

1x RX-70-4K-SCL Scaling Receiver  
1x 12V DC 3A Power Supply  
1x AC Cable  
2x 3-pin Phoenix Connector  
1x Wide-band IR Emitter  
1x Wide-band IR Receiver (30-50KHz)  
1x USB to 3-pin RS-232 Port Adapter Cable  
2x Mounting Brackets  
1x Quickstart Guide
Specifications

**Audio and Video**

| **Inputs** | 1x HDBaseT 8-pin RJ-45 female |
| **Outputs** | 1x HDMI 19-pin type A  
1x S/PDIF Out Coaxial Digital (Audio de-embedded from HDBaseT signal)  
1x Audio Out 3pin Phoenix Connector (Audio de-embedded from HDBaseT signal) |
| **Output Video Encoding** | HDBaseT Class A |
| **Encoding Data Rate** | 9.2Gbps |
| **End to End Latency** | 10μs (micro seconds) |
| **Audio Formats** | S/PDIF: 2ch PCM | Multichannel: Up to 5.1 DTS and Dolby Digital  
HDMI: 2ch PCM | Multichannel: LPCM and Up to DTS-X and Dolby Atmos |

**Video Resolutions (Max)**

<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>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/9.8ft</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/9.8ft</td>
<td>N/A</td>
<td>N/A</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>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Supported Standards**

DCI | RGB | HDR | HDR10 | Dolby Vision up to 30Hz | HLG | BT.2020 | BT.2100

**Maximum Pixel Clock**

297MHz

**Communication and Control**

**HDMI**

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

**HDBaseT**

HDMI | HDCP 2.2 | EDID (Configurable) | CEC | Bidirectional IR, RS-232, and Ethernet

**Ethernet**

2x 8-pin RJ-45 female | 10/100 Mbps auto-negotiating | API Receiver Configuration | Bidirectional over HDBaseT

**IR**

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

**RS-232**

1x 3-pin Phoenix Connector | API Receiver Configuration | Bidirectional over HDBaseT when used with H2X matrix

**Audio Return Channel (ARC)**

Returns audio from displays built-in applications via ARC HDMI Input over HDBaseT

**Power**

**Power Supply**

Input: 100~240V AC 50/60Hz | Output: 12V DC 2A

**Max Power Consumption**

16.4W

**Environmental**

**Operating Temperature**

32°F ~ 113°F (0°C ~ 45°C) | 10% ~ 90%, non-condensing

**Storage Temperature**

-4°F to ~ 158°F (-20°C ~ +70°C) | 10% ~ 90%, non-condensing

**Maximum BTU**

55.96 BTU/hr

**Dimensions and Weight**

**Rack Units | Wall Box**

0.56U

**Height**

25mm/1in

**Width**

234.4mm/9.23in

**Depth**

143.5mm/5.65in

**Weight**

0.66kg/1.45lbs

**Regulatory**

Safety and Emission

CE | FCC | RoHS
RX-70-4K-SCL Specification Sheet | 180501

Right Product for the Right Application.

Key: • HDMI/Digital Video • HDBaseT/Ethernet • Digital Audio • Analog Audio • Control • Power

- H2 Matrix with ARC
- HDR Display
- HDMI In
- IR TX
- IR RX
- Amplifier
- Ethernet
- PC for Control
- CAB-IR-LINK (Sold Separately)
- Control System
- Digital Audio
- Analog Audio
- 12V DC 2A Power Supply
- 4K HDR Display
- Cat6/6a/7
- Power Supply
- CAB-IR-LINK (Sold Separately)