

# HDBaseT™ POH Display Receiver with Bi-directional IR Control and RS232 (1080p: 70m/230ft, 4K: 35m/114ft)

RX-70-POH



## Key Features:

- Supports 1080p@60Hz/36bit to 70m/230ft and 4K UltraHD 4096x2160@30Hz 4:4:4 up to 35m/114ft
- Low profile 18mm chassis and PoH for convenient installation behind displays
- Bi-directional IR and RS-232, CEC pass-through, internal handling of EDID
- HDCP 2.2 compatible, update mode through serial port

As slim as it is powerful, the RX-70-POH HDBaseT Receiver supports transmissions of full 1080p@60Hz/36bit video up to 70m/230ft and full 4K up to 35m/114ft, multichannel audio, 2-way IR control, RS-232 and remote power from compatible WyreStorm PoH matrices, transmitters or presentation switchers along a single Cat5e/6 cable - all within a low-profile chassis capable of placement behind even the slimmest display wall mounts.

## Additional Features & Benefits:

- Display receiver supporting transmissions of 4K and 1080p HD video, HD multichannel audio and control transmissions using single Cat5e/6
- Support 35m/114ft 4K transmission distances up to 4096x2160@30Hz 4:4:4 and 4096x2160@60Hz 4:2:0
- Supports 70m/230ft HD transmission distances of 1080p, 1080i, 720p with screen refresh rates of 24Hz, 30Hz, 50Hz and 60Hz (1080p)
- Robust Class B HDBaseT transmission technology for stable HD distribution and control offering the trademark HDBaseT resistance to electrostatic and environmental interference compared to conventional UTP transmission
- 24bit color (4K), 36bit Deep Color (1080p)
- HDMI v1.4 with full 3D compatibility
- Low profile chassis of 18mm / 0.71" for easier, more convenient installations behind screens at display zones
- Multichannel audio supports 7.1 DTS Master HD and Dolby TrueHD
- Internal handling of EDID and automatic adjustment of feedback, equalization and amplification of signal for easy setup
- Power-over-HDBaseT (PoH) - low-voltage power passed directly along Cat5e/6 up to 35m/114ft (4K) or 70m/230ft (1080p) from compatible transmission device to RX-70-POH for no local power required at display locations
- Additional power connectivity via threaded bushings for both standard and locking DC power plugs and phoenix connector
- Transmits discrete wide-band Bi-directional IR control signals together within the HDMI signal over a single Cat5e/6
- Switchable RS-232 for firmware updates serial third party control of matrix switching from display zones if connected to a compatible HDBaseT transmission device - check website for compatibility
- LED indication for visual power supply to receiver, signal status to show established connection to display, HDBaseT link to transmission device and HDCP confirmation to illustrate the presence of encryption within a signal
- HDCP 2.2 compliant
- Cable termination follows T568B standards
- 3 year warranty

## In The Box

1x RX-70-POH HDBaseT Receiver  
1x Printed Quickstart Guide  
1x Receiver mounting brackets (pair)  
1x IR emitter

1x IR receiver (30KHz~50KHz)  
1x 3-pin Screw Down Phoenix Connector  
1x 2-pin Screw Down Phoenix Connector

## Specifications

<b>Dimensions (W x H x D)</b>	181.7mm x 18mm x 94mm / 7.15in x 0.71in x 3.70in
<b>Mass (Main unit)</b>	0.4kg / 2.2lbs
<b>Input</b>	HDBaseT (HDBaseT certified, straight-through T568B standard cables recommended)
<b>Output</b>	HDMI 1.4 with HDCP
<b>Input Resolution</b>	480i, 576i, 480p, 576p, 720p@50, 720p@60, 1080p@24, 1080i@25, 1080i@30, 1080p@30, 1080p@50, 1080p@60, 3840/4096x2160@30Hz 4:4:4 / @60Hz 4:2:0
<b>Output Resolution</b>	480i, 576i, 480p, 576p, 720p@50, 720p@60, 1080p@24, 1080i@25, 1080i@30, 1080p@30, 1080p@50, 1080p@60, 3840/4096x2160@30Hz 4:4:4 / @60Hz 4:2:0
<b>Maximum Single Link Range</b>	1080p@60Hz/36bit Deep Color, 2160p@30Hz/24bit True Color
<b>3D</b>	Frame packing/sequential (Blu-ray), Interlaced stereoscopic (satellite/cable broadcasts)
<b>Transmission Distance</b>	70m/230ft (1080p), 35m/114ft (4K) (Under recommended transmission conditions including straight cable runs with no electrical interference, bends, kinks, patch panels or wall outlets)
<b>Bandwidth Signalling Rate</b>	10.2Gb/s
<b>Video Impedance</b>	100 Ω
<b>Maximum Pixel Clock</b>	297MHz
<b>Input Video Signal</b>	0.5-1.2V p-p
<b>Input DDC Signal</b>	5 volts p-p (TTL)
<b>Audio</b>	Multichannel digital audio supporting 7.1 DTS Master HD and Dolby True HD
<b>Certification</b>	CE, FCC, RoHS
<b>Operating Temperature</b>	32°F ~ 113°F (0°C ~ 45°C), 10% ~ 90%, non-condensing
<b>Storage Temperature</b>	-4°F ~ 140°F (-20°C ~ 70°C), 10% ~ 90% non-condensing
<b>Power Consumption</b>	≤6.6W
<b>ESD Protection</b>	±8kV (air-gap discharge) /±4kV (contact discharge)
<b>Surge Protection</b>	Voltage: ±1kV

Cable Type	Range	Supported Video
HDMI 1.4	15m/49ft	4096x2160@30Hz 4:4:4 / 4096x2160@60Hz 4:2:0
Cat5e/6/6a/7	35m/114ft	4096x2160@30Hz 4:4:4 / 4096x2160@60Hz 4:2:0
	70m/230ft	1920x1080p@60Hz with 36bit Deep Color including 3D

