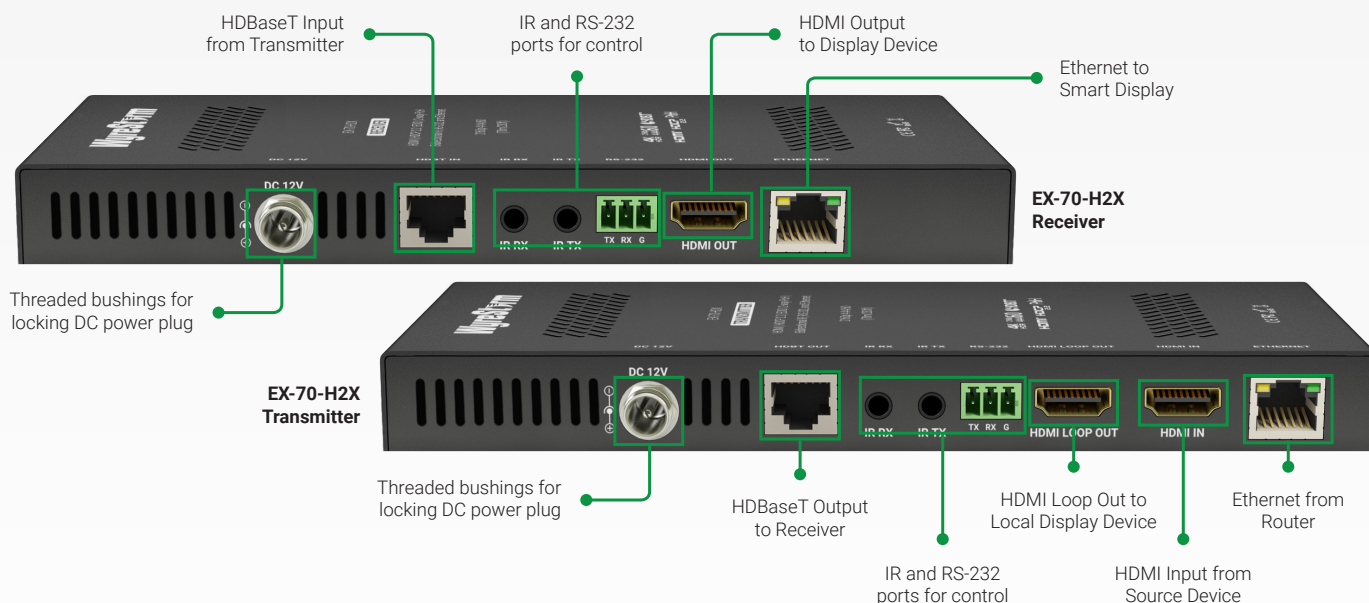


# 18Gbps 4K HDR HDBaseT Extender with HDMI Loop Out and 2-way PoH

EX-70-H2X

**WyreStorm®**

## Specification Sheet



WyreStorm - Because the Technology Matters.

## Introduction

Extending 4K UHD content at 4:4:4/60 up to 70m/230ft, the EX-70-H2X is compatible with the latest HDR standards including HDR-10 and HLG up to 60Hz; Dolby Vision is supported at 30Hz. Powerful Class A HDBaseT transmission means Ethernet, IR & RS-232 are also supported, with the addition of 2-way PoH for flexible installation options. The HDMI loop-output means that source content can be sent to multiple locations by simply cascading the signal to additional extenders or switchers.

## Key Features

- Extends 2160p 4:4:4 or HDR content from a source to a display or projector using HDBaseT
- Automatically activated visually lossless compression handles HDMI content up to 17.8Gbps
- HDMI loop-out on transmitter splits signal and allows further connection of source to another extender, switcher or distribution system
- Compatible with the latest HDR standards, including HDR-10+, HLG content, with support for Dolby Vision™ up to 30Hz
  - Supports all VESA resolutions within the HDMI 2.0 specification
- Class A HDBaseT extends 4K UHD 4:4:4 content to 70m/230ft with Ethernet, 2-way PoH, IR & RS-232 pass-through
- Advanced re-clocking chipset increases compatibility with new 4K UHD source devices
- 2-way PoH (Power over HDBaseT™) enables either transmitter or receiver to be remotely powered by the other unit
- EDID adjustment on transmitter (TX)
- Slimline 18mm chassis for easier, more convenient installation behind displays
- 2ch PCM audio and multichannel HD audio supports 7.1, DTS-X and Dolby Atmos
- HDCP 2.2 compliant
- Switchable RS-232 function mode on transmitter and receiver for firmware update
  - Note:** Serial control via RS-232 only supported when connected to a compatible HDBaseT™ transmission device with routable RS-232
- Threaded bushings allow use of both standard and locking 18v DC power plugs
- Visual LED indication for power supply to units, signal status to show established display connection, HDCP presence and HDBaseT™ link quality
- Automatically adjusts equalization and amplification of signal for easy installation

## In the Box

1x EX-70-H2X Transmitter  
1x EX-70-H2X Receiver  
1x 12V DC 2A Power Supply (US/UK/EU)  
2x 3-pin Screw Down Phoenix Connectors

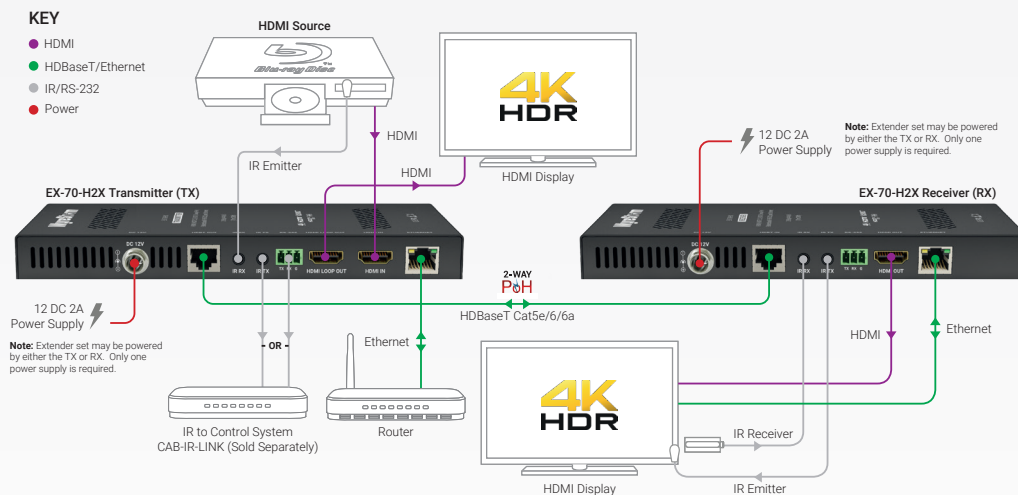
2x IR Emitters  
2x IR Receivers  
4x Mounting Brackets (2x for TX | 2x for RX)  
1x Quickstart Guide

**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					
	Transmitter		Receiver		
Inputs	1x HDMI In: 19-pin type A		1x HDBT In: 8-pin RJ-45 Female		
Outputs	1x HDBT Out: 8-pin RJ-45 Female 1x HDMI Loop Out: 19-pin type A (v2)		1x HDMI Out: 19-pin type A		
Output Video Encoding	HDBaseT Class A				
Encoding Data Rate	9.2Gbps				
End to End Latency (Max)	Version 1: 10µs (micro seconds)   Version 2: 10µs (micro seconds)				
Audio Formats	2ch PCM   Multichannel up to DTS-X and Dolby Atmos				
Video Resolutions (Max)	Video Resolution	HDMI	Cat6	Cat6a/7	Cat6/6a/7 Long Cable Mode
	1920x1080p @60Hz 12bit	15m/49ft	100m/328ft	100m/328ft	140m/439ft
	1920x1080p @60Hz 16bit	7m/23ft	100m/328ft	100m/328ft	140m/439ft
	3840x2160p @24Hz 10bit 4:2:0 HDR	3m/10ft	70m/230ft	100m/328ft	NA
	3840x2160p @30Hz 8bit 4:4:4	7m/23ft	70m/230ft	100m/328ft	NA
	3840x2160p @60Hz 10bit 4:2:0 HDR	3m/10ft	70m/230ft	70m/230ft	NA
	4096x2160p @60Hz 8bit 4:2:0	7m/23ft	70m/230ft	100m/328ft	NA
	4096x2160p @60Hz 8bit 4:4:4	7m/23ft	70m/230ft	70m/230ft	NA
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 Phoenix				
Ethernet	1x Ethernet: 8-pin RJ-45 Female				
Power					
Power Supply	12V DC 2A				
PoH	IEEE 802.3af 48V 15.4W Max   2-way				
Max Power Consumption	26.5W				
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	90.42 BTU/hr				
Dimensions and Weight					
	Version 1		Version 2		
Rack Units	<1U		<1U		
Height	18mm/0.71in		21mm/0.83in		
Width	232mm/9.14in		210mm/8.27in		
Depth	94mm/3.71in		94.8mm/3.74in		
Weight	0.52kg/1.14lbs		0.52kg/1.14lbs		
Regulatory					
Safety and Emission	CE   FCC   RoHS				

## 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.