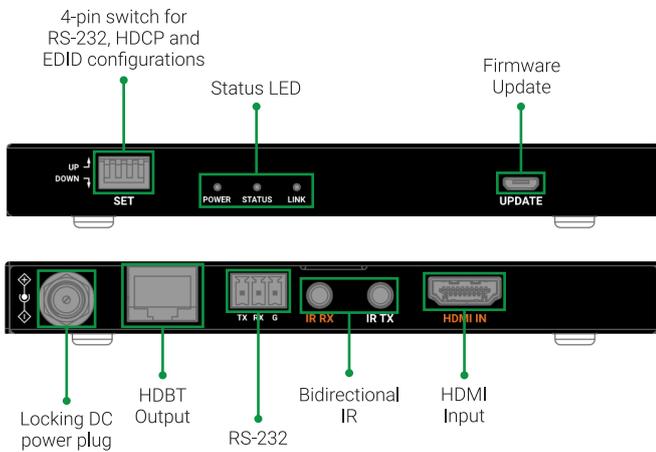


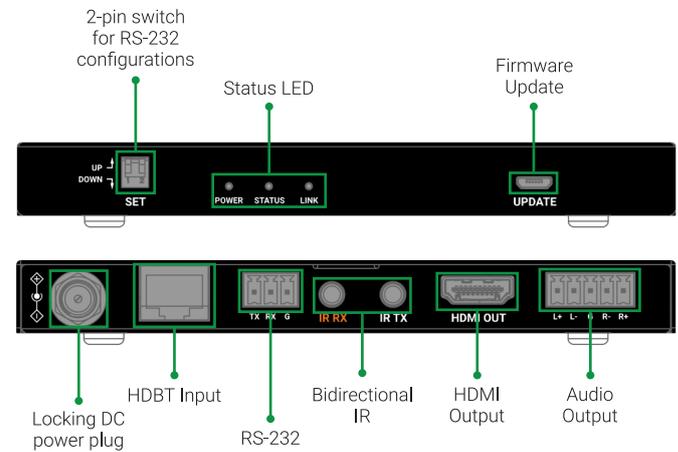
# 35m HDMI 2.1 8K HDBaseT Extender

## EX-35-8K

### EX-35-8K Transmitter



### EX-35-8K Receiver



WyreStorm - Powerful. Reliable. Simple.

## Introduction

The EX-35-8K is a robust solution for extending high-bandwidth video and control signals for residential and corporate installations. Its features include support for cutting-edge HDMI 2.1 resolutions, delivering 8K@30Hz (or 8K@60Hz 4:2:0) and 4K@120Hz (4:4:4) video up to 35m over a single Cat5e/6 cable, or up to 40m over Cat6a/7, ensuring future-proof performance with a 40Gbps data rate and HDCP 2.3 compliance. Installation is simplified through Bi-direction PoC (Power over Cable), requiring only one power adapter for the entire link, while integrated RS232 and Bi-direction IR Pass-through provide comprehensive control. Furthermore, the unit offers professional audio handling with a balanced de-embedded audio output on the Receiver (RX) for connecting to dedicated sound systems.

## Key Features

- **Long-Range HDBT Extension:** Transmit crystal-clear video over a single Cat cable:
  - Up to 35m for 8K/4K video on Cat5e/6.
  - Up to 40m for 8K/4K video on Cat6a/7.
- Power is delivered over the HDBT cable, meaning you only need a single power supply (included) at either the Transmitter (TX) or Receiver (RX) unit, simplifying installation behind displays.
- Seamlessly manage all connected devices with bi-directional IR Pass-through and RS232 Pass-through (up to 115200 bps), allowing central control systems to communicate with sources and displays at either end.
- Extract high-quality audio directly from the HDMI signal using the built-in balanced audio de-embed output. Ideal for feeding amplifiers, DSPs, soundbars, or external audio systems.

## In the Box

- 1x EX-35-8K Extender Set
- 1x 12V 2A DC Power Supply with US/UK/EU/AU Pins
- 8x Mounting Ears (with screws)
- 2x 3-pin Phoenix Terminal
- 1x 5-pin Phoenix Terminal (for the balanced audio out)
- 1x IR Receiver Cable (30-50KHz)
- 1x IR Emitter Cable
- 1 x Quickstart Guide

# Specifications

<b>Audio and Video</b>			
<b>Input/Output Signal Type</b>	HDMI 2.1, HDCP 2.3		
<b>Input/Output Resolutions</b>	<p><b>VESA:</b> 800 x 600<sup>6</sup>, 1024 x 768<sup>6</sup>, 1280 x 768<sup>6</sup>, 1280 x 800<sup>6</sup>, 1280 x 960<sup>6</sup>, 1280 x 1024<sup>6</sup>, 1360 x 768<sup>6</sup>, 1366 x 768<sup>6</sup>, 1440 x 900<sup>6</sup>, 1600 x 900<sup>6</sup>, 1600 x 1200<sup>6</sup>, 1680 x 1050<sup>6</sup>, 1920 x 1200<sup>6</sup>, 2048 x 1152<sup>6</sup>, 2560 x 1440<sup>6</sup>, 5120x1440<sup>6</sup>, 5120x2160<sup>6</sup></p> <p><b>HDTV:</b> 1280 x 720P<sup>5,6,7,8</sup>, 1920 x 1080P<sup>5,6,7,8,9,10,11</sup>, 3840 x 2160P<sup>1,2,3,4,5,6,7,8</sup>, 4096 x 2160P<sup>1,2,3,4,5,6,7,8</sup>, 7680 x 4320P<sup>1,2,3,4,5,6</sup></p> <p>1 = at 24 (23.98) Hz, 2 = at 25 Hz, 3 = at 30 (29.97) Hz, 4 = at 48 Hz, 5 = at 50 Hz, 6 = 60 (59.94) Hz, 7 = at 100Hz, 8 = at 120Hz, 9 = at 144Hz, 10 = at 165Hz, 11 = at 240Hz</p> <p><b>Note:</b> 7680 x 4320P @48Hz/50Hz/60Hz supports only YCbCr 4:2:0.</p>		
<b>Maximum Data Rate</b>	HDMI: 40Gbps		
<b>Audio Formats</b>	<p><b>HDMI IN/OUT:</b> Supports multichannel audio up to PCM 7.1, including PCM 2.0/5.1/7.1ch, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, Dolby Atmos, DTS 5.1, DTS-HD Master Audio and DTS:X</p> <p><b>AUDIO OUT:</b> PCM 2.0ch</p>		
<b>Transmission Distance</b>	<b>Cable Type</b>	<b>Range</b>	<b>Supported Video</b>
	Cat 5e/6	197ft/60m	1080P@60Hz
		115ft/35m	4K@60Hz, 8K@60Hz 4:2:0
	Cat 6a/7	230ft/70m	1080P@60Hz
		131ft/40m	4K@60Hz, 8K@60Hz 4:2:0
	HDMI	Input/Output: 33ft/10m	4K@30Hz, 1080P@60Hz
Input: 33ft/10m Output: 16ft/5m		4K@60Hz	
Input/Output: 10ft/3m		8K@60Hz 4:2:0, 4K@120Hz, 8K@30Hz	
<b>Power</b>			
<b>Power Supply</b>	DC 12V 2A		
<b>Power Consumption (Maximum)</b>	11.4W (Pair, via PoC)		
<b>Environmental</b>			
<b>Operating Temperature</b>	0°C to 45°C (32°F to 113°F)		
<b>Storage Temperature</b>	-20°C to 70°C (-4°F to 158°F)		
<b>Humidity</b>	10% to 90%, non-condensing		
<b>ESD Protection</b>	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)		
<b>Dimensions</b>			
<b>Height</b>	15.3mm / 0.60in		
<b>Width</b>	140mm / 5.51in		
<b>Depth</b>	90.2mm / 3.55in		
<b>Weight</b>	0.59lb/0.27kg per unit (TX/RX)		
<b>Regulatory</b>			
<b>Safety and Emission</b>	CE   FCC   RoHS   RCM   EAC   UKCA		

**Note:** WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.