

4K HDR HDMI over HDBaseT[™] TX / RX Kit





Introduction

The Atlona **AT-HDR-EX-70-2PS** is an HDBaseT transmitter/receiver kit for high dynamic range (HDR) formats. The kit is HDCP 2.2 compliant and supports 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling, as well as HDMI data rates up to 18 Gbps. The HDR-EX-70-2PS provides HDMI transmission up to 230 feet (70 meters) for 1080p video, and up to 130 feet (40 meters) for 4K HDR over CAT6a/7 cable. This extender kit features visually lossless compression with no latency to enable HDR and 4K/60 4:4:4 video signal extension over HDBaseT. The HDR-EX-70-2PS delivers a cost-effective solution for HDMI extension, with locally powered transmitter and receiver endpoints as well as surface mounting hardware for discreet installation.

The HDR-EX-70-2PS is ideal for residential applications with the latest as well as emerging 4K/UHD and HDR sources and displays. It is compatible with all video resolutions, audio formats, and color space formats supported in the HDMI 2.0b specification, plus the ability to pass metadata for HDR content. The HDR-EX-70-2PS includes Atlona's award-winning 10 year limited product warranty and customer support services, so that integrators can specify, purchase, and install with confidence.

Applications

- Residential installations
 The HDR-EX-70-2PS is designed for AV systems with the latest UHD and HDR sources such as Ultra HD Blu-ray players, plus compatible televisions and projectors.
- TV showrooms
 The HDR-EX-70-2PS can be used for reliable content transmission to televisions, to properly demonstrate the quality and appeal of 4K and HDR programming.
- Professional AV applications
 Atlona 4K HDR products are ideal for full-motion, highly detailed 4K graphics presentations for visualization, 3D renderings, simulations, and more.



Key Features

4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling, plus support for HDR formats

- Ideal for new and emerging 4K/UHD and HDR-capable sources and displays.
- Compatible with 4K HDR10 @ 60 Hz and Dolby® Vision™ @ 30 Hz.
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0b specification.

HDCP 2.2 compliant

- Adheres to latest specification for High-bandwidth Digital Content Protection.
- Allows protected content stream to pass between devices.

HDBaseT extender kit for HDMI up to 230 feet (70 meters)

- Extends HDMI up to 230 feet (70 meters) @ 1080p and 130 feet (40 meters) @ 4K HDR using CAT6a/7 cable.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

Visually lossless compression

- Enables HDBaseT transmission of HDMI up to 18 Gbps using extremely light video compression with no latency.
- Innovative signal extension solution delivers very high, pristine image quality.

Multi-channel audio compliant

- Supports PCM, Dolby® Digital, Dolby Digital Plus[™], Dolby TrueHD, Dolby Atmos®, DTS® Digital Surround[™], DTS-HD Master Audio[™], and DTS:X®.
- Allows any multi-channel audio stream to be used within a residential or professional audio system.

HDBaseT link status testing

- Free software utility available for testing integrity of the HDBaseT cable link between the transmitter and the receiver.
- Provides real-time link status, plus detailed HDBaseT and HDMI signal information.
- Quick, easy verification or troubleshooting of RJ-45 termination or twisted pair cable quality.



Specifications

Video							
Signal	Input - HDMI						
	Output - HDBaseT						
Copy Protection	HDCP 2.2	HDCP 2.2					
Pixel Clock	300 MHz						
UHD/HD/SD	4096x2160 (DCl) @ 24/25/30 Hz 3840x2160 (UHD) @ 24/25/30 Hz 1920x1080p @ 23.97/24/25/29.97/30/50 /59.94/60 Hz 1920x1080i @ 50/59.94/60 Hz 1280x720p @ 30/50/60 Hz			720x576p @ 50 Hz 720x576i @ 50 Hz 720x480p @ 59.94/60 Hz 640x480p @ 60 Hz			
VESA All resolutions are 60Hz	2560×1600 @ 60 Hz (RB) 2048×1536 @ 60 Hz 2048×1200 @ 60 Hz 2048×1080 @ 60 Hz 1920×1200 @ 60 Hz (RB) 1920×1080 @ 60 Hz (RB) 1680×1050 @ 60 Hz 1600×1200 @ 60 Hz 1440×900 @ 60 Hz 1440×900 @ 60 Hz		1366×768 @ 60 Hz 1360×768 @ 60 Hz 1280×1024 @ 60 Hz 1280×800 @ 60 Hz 1280×768 @ 60 Hz 1280×720 @ 60 Hz 1152×870 @ 75 Hz 1024×768 @ 60 Hz 848x480 @ 60 Hz 800×600 @ 60 Hz				
Color Space	YUV, RGB	YUV, RGB					
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0						
Color Depth	8-bit, 10-bit, 12-bit						
HDR	Up to 4K HDR10 @ 60 Hz, 4K Hybrid-Log Gamma (HLG) @ 60 Hz, and 4K Dolby [®] Vision [™] @ 60 Hz ⁽¹⁾						
Audio							
HDMI / HDBaseT Pass-Through Formats	PCM 2.0 LPCM 5.1 LPCM 7.1		Dolby® Digital Dolby Digital Plus™ Dolby TrueHD Dolby Atmos®		DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®		
Bit Depth	Up to 24 bits						
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz						
Resolution / Distance	4K/UHD - Foot / Mot	ore		1080p - Foot	/ Motor	<i>.</i>	
	4K/UHD - Feet / Meters		1080p - Feet / Meters				
HDMI IN/OUT	15	5		30		10	
CAT5e/6	115	35		200		60	
CAT6a/7	130	40		230		70	
CEC							
Port	HDMI, Type A, 19-pin female						
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Indicators							

Indicators	
Indicators:	
POWER	1 x LED, green
LINK	1 x LED, yellow



Connectors				
HDMI IN	1 x Type A, 19-pin female			
HDBaseT OUT	1 x RJ45			
FW	1 x Type mini-B, 5-pin female			
DC 5V	1 x Barrel, locking			
Environmental	Fahrenheit	Celsius		
Operating Temperature	+32 to +122	0 to +50		
Storage Temperature	-4 to +140	-20 to +60		
Operating Humidity (RH)	20% to 90%, non-condensing	2010100		
Power	Transmitter	Receiver		
Consumption	4.0 W	5.9 W		
Idle Consumption	1.32 W	3.55 W		
External Power Supply	100 - 240 V AC, 50/60 Hz			
	Output: 5 V / 2.6 A DC			
Dimensions (H x W x D)	Inches	Millimeters		
Unit	1.00 x 4.30 x 3.00	25 x 109 x 76		
Power Supply	1.22 x 1.97 x 3.17	31 x 50 x 81		
(AT-PS-54-L-2PS)				
Weight	Pounds	Kilograms		
Transmitter	0.73	0.33		
	0.80			
Receiver	0.80	0.36		
	0.80			
Receiver	0.80 CE, FCC			
Receiver Certification		0.36		
Receiver Certification Device Power Supply	CE, FCC	0.36		
Receiver Certification Device	CE, FCC	0.36		
Receiver Certification Device Power Supply Compliance	CE, FCC CE, FCC, Level VI, RoHS, cULus,	0.36		
Receiver Certification Device Power Supply Compliance NDAA-889	CE, FCC CE, FCC, Level VI, RoHS, cULus, Yes	0.36		

Warranty	
3 years	View the full warranty information here: https://atlona.com/warranty

Footnotes

(1) 4K Dolby® Vision™ @ 60 Hz is supported on systems capable of Low Latency Dolby Vision (LLDV) mode. All other 4K modes limited to 30 Hz.



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