



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	
Pixel Clock	300 MHz	
UHD/HD/SD	4096x2160 (DCI) @ 24/25/30 Hz 720x576p @ 50 Hz 3840x2160 (UHD) @ 24/25/30 Hz 720x576i @ 50 Hz 1920x1080p @ 23.97/24/25/29.97/30/50 720x480p @ 59.94/60 Hz /59.94/60 Hz 640x480p @ 60 Hz 1920x1080i @ 50/59.94/60 Hz 1280x720p @ 30/50/60 Hz	
VESA All resolutions are 60Hz	2560x1600 @ 60 Hz (RB) 1366x768 @ 60 Hz 2048x1536 @ 60 Hz 1360x768 @ 60 Hz 2048x1200 @ 60 Hz 1280x1024 @ 60 Hz 2048x1080 @ 60 Hz 1280x800 @ 60 Hz 1920x1200 @ 60 Hz (RB) 1280x768 @ 60 Hz 1920x1080 @ 60 Hz (RB) 1280x720 @ 60 Hz 1680x1050 @ 60 Hz 1152x870 @ 75 Hz 1600x1200 @ 60 Hz 1024x768 @ 60 Hz 1600x900 @ 60 Hz 848x480 @ 60 Hz 1440x900 @ 60 Hz 800x600 @ 60 Hz 1400x1050 @ 60 Hz 640x480 @ 60 Hz	
VESA 21:9 ⁽¹⁾	2560x1080 @ 30 Hz 4:4:4 3440x1440 @ 50 Hz 4:4:4 2560x1080 @ 60 Hz 4:4:4 3840x1600 @ 30 Hz 4:4:4 3440x1440 @ 30 Hz 4:4:4	
Color Space	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 ⁽²⁾	

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 - 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

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	

Power	Transmitter	Receiver
Consumption	4.0 W	5.9 W
Idle Consumption	1.32 W	3.55 W
BTU/h	13.7	20.2
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 (AT-PS-54-L-2PS)	1.22 x 1.97 x 3.17	31 x 50 x 81

Weight	Pounds	Kilograms
Transmitter	0.73	0.33
Receiver	0.80	0.36

Certification	
Device	CE, FCC
Power Supply	CE, FCC, Level VI, RoHS, cULus, RCM, CCC

Compliance	
NDAA-889	Yes
TAA	Yes

Warranty	
Device	To view the product warranty, use the following link: https://atlon.com/warranty

Footnotes

(1) The following UltraWide Quad HD resolutions are NOT supported:

3440x1440P@50 10 bit 4:4:4
 3440x1440P@60 10 bit 4:4:4
 3840x1600P@60 8 bit 4:4:4.

(2) 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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