



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 2.0a 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

- Installations utilizing the latest UHD and HDR sources such as Ultra HD Blu-ray players, plus compatible televisions and projectors.
- TV showrooms requiring reliable 4K and HDR content transmission to televisions.
- Professional AV applications with full-motion, highly detailed 4K graphics presentations.

Key Features

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

- Compatibility with new and emerging 4K/UHD and HDR-capable sources and displays.
- Fully supports video resolutions, audio formats, and color space formats in the HDMI 2.0a specification.

HDCP 2.2 compliant

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

Supports 4K HDR10 @ 60 Hz

- Compatible with HDR10 and other HDR formats enabled in the HDMI 2.0a specification.
- Ready to integrate with consumer video sources delivering HDR content.

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

- Extends HDMI signals 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.

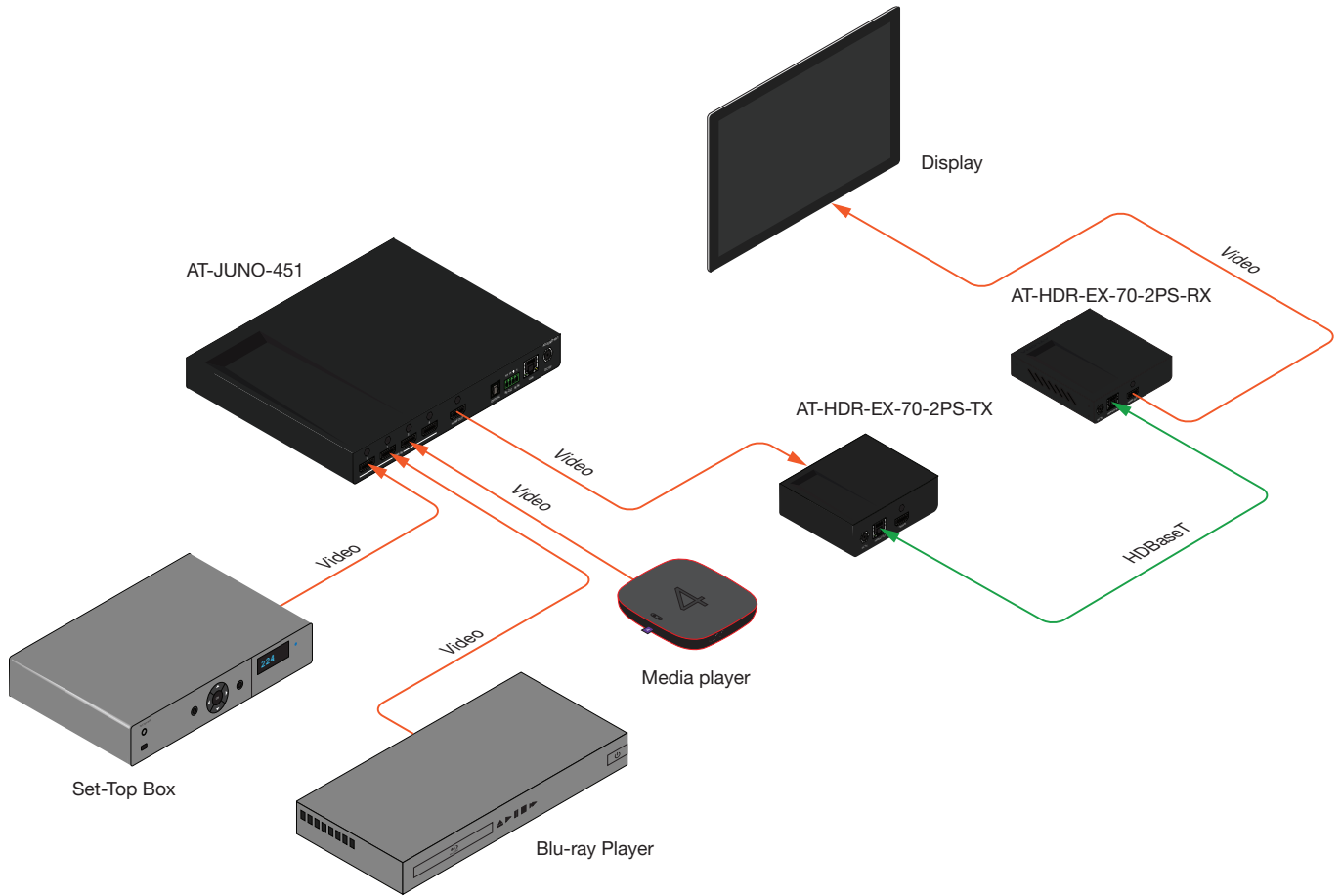
Multichannel audio compliant

- Allows any multichannel audio stream to be used within a residential or professional audio system.

Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in residential and commercial systems.
- Specify, purchase, and install with confidence.

Connection Diagram



Specifications

| Video | | | | |
|-----------------------|---|----|-----------------------|----|
| UHD/HD/SD | 4096×2160@24/25/30/50/60Hz, 3840×2160@24/25/30/50/60Hz, 2048×1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i | | | |
| VESA | 2560×2048, 2560×1600, 2048×1536, 1920×1200, 1680×1050, 1600×1200, 1600×900, 1440×900, 1400×1050, 1366×768, 1360×768, 1280×1024, 1280×800 1280×768, 1152×768, 1024×768, 800×600, 640×480 | | | |
| Color Space | YUV, RGB | | | |
| Chroma Subsampling | 4:4:4, 4:2:2, 4:2:0 | | | |
| Color Depth | 8-bit, 10-bit, 12-bit | | | |
| Audio | | | | |
| Formats | PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS 5.1, Dolby Digital Plus™, Dolby TrueHD, DTS-HD Master Audio™, Dolby Atmos®, DTS:X® | | | |
| Sample Rate | 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz | | | |
| Bit Rate | 24-bit (max.) | | | |
| Resolution / Distance | 4K/UHD - Feet / Meters | | 1080p - Feet / Meters | |
| HDMI | 15 | 5 | 30 | 10 |
| CAT5e/6 | 115 | 35 | 200 | 60 |
| CAT-6a / CAT-7 | 130 | 40 | 230 | 70 |
| Signal | | | | |
| Bandwidth | 18 Gbps | | | |
| CEC | Yes | | | |
| HDCP | 2.2 | | | |
| Temperature | Fahrenheit | | Celsius | |
| Operating | 32 to 122 | | 0 to 50 | |
| Storage | -4 to 140 | | -20 to 60 | |
| 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 | |
| Supply | Input: 100 - 240 V AC, 50/60 Hz Output: 5 V DC | | | |
| Dimensions | Inches | | Millimeters | |
| H x W x D | 1.00 x 4.30 x 3.00 | | 25 x 109 x 76 | |
| Weight | Pounds | | Kilograms | |
| Device | 0.50 | | 0.22 | |
| Certification | | | | |
| Device | CE, FCC | | | |