

AT-HDR-EX-70C-TX
Specification Sheet

4K HDR HDBaseT Transmitter with Control

Description

The Atlona AT-HDR-EX-70C-TX is a HDBaseT™ transmitter for 4K and high dynamic range (HDR) content. It supports extension of 4K/UHD video @ 60 Hz with 4:4:4 chroma sampling plus HDR data, multi-channel audio, control signals, and power up to 130 ft (40 m) or 1080p up to 230 ft (70 m) over Category 6/6A cable.

The HDR-EX-70C-TX is ideal for use with the AT-HDR-EX-70C-RX receiver for transmitting 4K HDR in point-to-point applications. It can also be used with the AT-UHD-CLSO-824 and AT-UHD-SW-5000ED for transmitting 4K/UHD @ 60 Hz 4:2:0 signals to the switchers from a remote source.

Key Features

- HDBaseT transmitter for use with the AT-HDR-EX-70C-RX receiver.
- 4K/UHD capability @ 60 Hz with 4:4:4 chroma sampling.
- Supports HDR10, HLG, and Dolby® Vision™ HDR formats.
- Features visually lossless compression with no latency to enable HDR and 4K/60 4:4:4 video signal extension over HDBaseT.
- HDBaseT output transmits AV, control signals, and power up to 130 feet (40 meters) for 4K HDR or 230 feet (70 meters) for 1080p with Category 6/6A.
- Extends bidirectional RS-232 and IR control signals over HDBaseT.
- Provides remote power over HDBaseT to compatible receivers such as the AT-HDR-EX-70C-RX.
- Compliant with HDCP 2.2, the latest specification for passing protected content between devices.
- Multi-channel audio pass-through.
- HDBaseT link status testing allows verification of cable, termination, and link quality for more reliable installations.
- Front panel Power and Link status LEDs.
- Front panel USB port for firmware updates.
- Rear panel connections simplify wire management and save installation time.
- Compact enclosure can be mounted in furniture, a lectern, or an equipment rack.
- Compatible with AT-UHD-CLSO-824 and AT-UHD-SW-5000ED switchers for transmission of 4K/UHD @ 60 Hz 4:2:0 signals.

Specifications

Video	
Signal	Input: HDMI Output: HDBaseT
Copy Protection	HDCP 2.2
Pixel Clock	600 MHz
UHD / HD / SD	4096 × 2160 @ 60, 50, 30, 25, 24 Hz 3840 × 2160 @ 60, 50, 30, 25, 24 Hz 1920 × 1080p @ 60, 59.94, 50, 30, 29.97, 25, 24, 23.98 Hz 1920 × 1080i @ 30, 29.97, 25 Hz 720p @ 60, 59.94, 50 Hz 576p @ 50 Hz; 576i @ 25 Hz 480p @ 60, 59.94 Hz; 480i @ 30 Hz
VESA (all @ 60 Hz unless noted)	2560 × 1600, 2048 × 1536, 1920 × 1200, 1680 × 1050, 1600 × 1200, 1440 × 900, 1400 × 1050, 1366 × 768, 1360 × 768, 1280 × 1024, 1280 × 800, 1152 × 864, 1024 × 768, 800 × 600, 640 × 480
VESA 21:9	2560 × 1080 @ 30 Hz 4:4:4 2560 × 1080 @ 60 Hz 4:4:4 3440 × 1440 @ 30 Hz 4:4:4 3440 × 1440 @ 50 Hz 4:4:4 (1) 3840 × 1600 @ 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-bit
Sample Rate	32, 44.1, 48, 88.2, 96, 176.4, 192 kHz

Cable / Resolution	4K/UHD	1080p
HDMI IN	15 ft (5 m)	30 ft (10 m)
Cat 5e	115 ft (35 m)	200 ft (60 m)
Cat 6 / 6a / 7	130 ft (40 m)	230 ft (70 m)

Control	
RS-232	Pass-through, up to 115200 baud
IR	Pass-through, 30 kHz to 60 kHz

Buttons and Indicators	
TEST (button)	1 × momentary, tact-type
Power	1 × LED, green
Link	1 × LED, yellow
Test	1 × LED, multi-colored

Connectors	
HDMI IN	1 × Type A, 19-pin female
HDBaseT OUT	1 × RJ45, female
FW (firmware)	1 × Micro-A USB
PWR	1 × 2-pin captive screw (48 V)
RS-232	1 × 3-pin captive screw
IR	1 × 4-pin captive screw

Environmental	Fahrenheit	Celsius
Operating Temperature	+32 to +122 °F	0 to +50 °C
Storage Temperature	-4 to +140 °F	-20 to +60 °C
Operating Humidity (RH)	20% to 90%, non-condensing	

Power	
Consumption	6.07 W
BTU/h	20.7
External Power Supply	Input: 100–240 V AC, 50/60 Hz Output: 48 V DC, 0.83 A

Dimensions (H × W × D)	Inches	Millimeters
Device	1.02 × 4.29 × 5.00	26 × 109 × 127
Power Supply (AT-PS-48083-C)	1.42 × 1.81 × 4.41	36 × 46 × 112

Weight	Pounds	Kilograms
Device	0.85	0.39

Certifications	
Device	CE, FCC
Power Supply	CE, FCC, cULus, RoHS, CCC, RCM

Compliance	
NDAA-889	Yes
TAA	Yes

Warranty	
Device	To view the product warranty, visit: hallresearch.com/warranty

(1) The following UltraWide Quad HD resolutions are NOT supported: 3440 × 1440p @ 50 Hz 10-bit 4:4:4; 3440 × 1440p @ 60 Hz 10-bit 4:4:4; 3840 × 1600p @ 60 Hz 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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