



## Introduction

The Atlona **AT-HDVS-SC-RX** is an HDBaseT receiver and 4K/UHD scaler with a local HDMI input. It receives HDBaseT for video output up to 4K/30 4:4:4, plus embedded audio, control, and Ethernet over distances up to 330 feet (100 meters). The HDVS-SC-RX features Atlona CrystalScale technology with high-quality downscaling and upscaling, as well as advanced image optimization capabilities plus internal test patterns for setup and troubleshooting. The HDVS-SC-RX is ideal for 4K presentation applications with HDVS-200 and Omega™ Series switching transmitters, EX Series transmitters, Atlona AV switchers with HDBaseT outputs, and local HDMI sources, plus the Gain™ 60 amplifier. The HDVS-SC-RX and HDVS-200 or Omega Series transmitter together serve as a compact, fully automated AV system with the convenience of automatic input selection, display control, remote transmitter powering through Power over Ethernet (PoE), and 4K/UHD scaling.

## Applications

- Complete integration for meeting rooms**  
 The HDVS-SC-RX and an HDVS-200 or Omega Series transmitter together provide a compact yet integrated solution with automatic input selection, HDBaseT extension, display control capabilities, room control, audio de-embedding and volume control.
- Larger presentation applications**  
 The HDVS-SC-RX is ideal for extending AV connectivity from an Atlona HDBaseT-equipped switcher to a remote display or projector. Content can be upscaled, downscaled, or delivered with scaling bypassed, while providing unparalleled, pristine image quality.

## Key Features

### HDBaseT™ receiver with local HDMI® input

- Two-input switcher with HDBaseT and HDMI inputs.
- HDMI input is ideal for a wireless gateway, PC, videoconferencing codec, or media player installed near a display.

### Advanced 4K/UHD scaling featuring Atлона CrystalScale™ technology

- Dedicated video processing features for system setup and fine-tuning.
- Ensure best quality image presentations with optimization settings and internal test patterns.
- Selectable pass-through mode (scaler bypass mode) for 1:1 image output.

### Pristine-quality downscaling and upscaling

- Preserves critical color and spatial detail when down-converting 4K content to 1080p or vice versa.
- Ideal for presentation applications where 4K content is to be viewed on a variety of 4K and HD displays.

### Aspect ratio control

- The aspect ratio of the video can be adjusted to a desired presentation viewing format.
- Aspect ratio options include Fill (content fills the display), and Follow (keep original aspect ratio).

### Image optimization for flat-panel and LED tiled displays

- Gamma correction available to optimize or enhance the content for the display.
- Uniformity correction compensates for color uniformity issues viewed on-screen.

### Advanced motion-adaptive deinterlacing for 1080i input signals

- Optimizes presentation of 1080i source content such as television broadcasting.
- Frame conversion for 1080 interlacing and de-interlacing.

### Internal video test patterns for setup, calibration, and troubleshooting

- Includes color bars, crosshatch, grayscale, and moving bar.
- Test patterns facilitate setting up displays, validating system performance, and diagnosing image display or signal connectivity issues.

### Automatic input selection and automatic display control using IP, RS-232, or CEC

- Automatically changes display power state, and switches between inputs based on device connection or disconnection.
- Includes an adjustable lamp cool-down mode to avoid prematurely powering up a projector after shutdown.
- Enables effortless, automated system operation without the need for an external control system.

## Key Features (continued)

### Contact closure for screen or display lift control

- Dry contact closure triggers electronic screen or lift operation based on active or standby mode of scaler.
- Automates screen or lift activation at system power-up; eliminates need for a separate AV control system.

### Audio de-embedding

- De-embeds two channel PCM audio from any video source to a balanced, analog audio output.
- Independent mute controls for embedded and de-embedded two-channel PCM audio, plus three-band EQ for the analog audio output.

## Specifications

Video	
Signal	Input - HDMI Input - HDBaseT Output - HDMI
Copy Protection	HDCP 1.4 / 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
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDR	HDR10, Hybrid-Log Gamma (HLG), and Dolby® Vision™ @ 60 Hz <sup>(1)</sup>

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		
<b>Analog Audio</b>			
Format	Stereo 2-Channel		
Balanced Output	+4 dBu nominal gain, +20 dB headroom		
Frequency Response	20 Hz to 20 kHz, ± 0.5 dB		
THD+N	< 0.004% at 20 Hz to 20 kHz		
SNR	> 105 dB at 1 kHz, zero clipping @ 0 dBFS, unweighted		
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	230	70	330	100
CAT6a/7	330	100	330	100

Ethernet	
Port	1 x RJ45
Standards and Protocols	HTTP, Telnet, mDNS
Speeds	10/100/1000 Mbps
Addressing	DHCP, Static – selectable through IP, RS-232 commands, and built-in web server

RS-232	
Port	1 x 5-pin captive screw
Use	Unit and external device control and configuration
Baud Rates	2400, 4800, 9600, 19200, 38400, 57600, 115200
Data flow	Bi-directional

Relay	
Port	1 x 3-pin captive screw
Use	Contact closure - motorized screen/display lifts and occupancy sensing
State	Normally open (NO)
Mode	Adjustable Toggle and Pulse modes
Electrical Rating	48 V @ 1 A

CEC	
Port	HDMI, Type A, 19-pin female
Triggering	Through IP, RS-232, and built-in web server

Buttons and Indicators	
<b>Buttons:</b> MENU, ENTER, UP, DN, INPUT	5 x momentary, tact-type
<b>Indicators:</b> POWER, LINK 1, 2	4 x LED, green

Connectors	
HDMI IN	1 x Type A, 19-pin female
HDBaseT IN	1 x RJ45
HDMI OUT	1 x Type A, 19-pin female
LAN <sup>(2)</sup>	1 x RJ45
RS-232	1 x 6-pin captive screw (2 x RS-232 ports, bidirectional)
AUDIO OUT	1 x 5-pin captive screw, balanced / unbalanced 2-channel
RELAY	1 x 3-pin captive screw
FW	1 x Type mini-B, 5-pin female
DC 24V	1 x 4-pin DIN connector, 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	
Consumption	24.75 W
External Power Supply	100 - 240 V AC, 50/60 Hz Output: 24 V / 2.7 A DC

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.02 x 8.40 x 9.17	26 x 213 x 233
Unit (with feet)	1.22 x 8.40 x 9.17	31 x 213 x 233
Power Supply (AT-PS-54-C)	1.20 x 2.00 x 3.20	30 x 50 x 81

Weight	Pounds	Kilograms
Device	2.97	1.35

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

Compliance	
NDAA-899	Yes

## Accessories

Description	SKU
LinkConnect HDMI to HDMI Cable	AT-LC-H2H-1M / 2M / 3M
LinkConnect Mini DisplayPort to HDMI Cable	AT-LC-MDP2H-1M / 2M / 3M

## Footnotes

- (1) Dolby® Vision™ @ 60 Hz is over HDMI in/out only.
- (2) Maximum distance per hop 330 ft (100 m), depending upon network configuration.

## Copyright, Trademark, and Registration

© 2022 Atlona Inc. All rights reserved. "Atlona" and the Atlona logo are registered trademarks of Atlona Inc. Pricing, specifications and availability subject to change without notice. Actual products, product images, and online product images may vary from images shown here.



The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI licensing Administrator, Inc.



Dolby, Dolby Atmos, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation.



For DTS patents, see <http://patents.dts.com>. Manufactured under license from DTS, Inc. DTS, the Symbol, DTS and the Symbol together, and Digital Surround are registered trademarks and/or trademarks of DTS, Inc. in the United States and/or other countries. © DTS, Inc. All Rights Reserved.

All other trademark(s), copyright(s), and registered technologies mentioned in this document are the properties of their respective owner(s).