



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 deinterlacing.

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.

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

Connectors, Controls, and Indicators	
INPUT 1 (HDBaseT)	1 - RJ45
INPUT 2 (HDMI)	1 - Type A, 19-pin female
USB	1 - Type mini-B, 5-pin female
RS-232	1 - 5-pin captive screw
AUDIO OUT	1 - 5-pin captive screw
RELAY	1 - 3-pin captive screw
LAN	1 - RJ45
DC 24V	1 - 4-pin mini-DIN, locking
Front panel buttons	5 - Momentary, tact-type
LED indicators	4 - LED, green

Video	
UHD/HD/SD In	4096x2160@24/25/30Hz, 3840x2160@24/25/30Hz, 1920x1080p@23.97/24/25/29.97/30/50/59.94/60Hz, 1920x1080i@50/59.94/60Hz, 1280x720p@30/50/60Hz, 720x576p@50Hz, 720x576i@50Hz, 720x480p@59.94/60Hz, 640x480p@60Hz
VESA In	2560x1600@60Hz(RB), 2048x1536@60Hz, 2048x1200@60Hz, 2048x1080@60Hz, 1920x1200@60Hz(RB), 1920x1080@60Hz(RB), 1680x1050@60Hz, 1600x1200@60Hz, 1600x900@60Hz, 1440x900@60Hz, 1400x1050@60Hz, 1366x768@60Hz, 1360x768@60Hz, 1280x1024@60Hz, 1280x800@60Hz, 1280x768@60Hz, 1280x720@60Hz, 1152x870@75Hz, 1024x768@60Hz, 848x480@60Hz, 800x600@60Hz, 640x480@60Hz
HDMI Out	4096x2160p@24/25/30Hz, 3840x2160@24/25/30Hz, 1920x1200@60Hz, 1920x1080p@24/25/30/50/60Hz, 1680x1050@60Hz, 1600x1200@60Hz, 1440x900@60Hz, 1360x760@60Hz, 1280x1024@60Hz, 1280x800@60Hz, 1280x768@60Hz, 1024x768@60, 800x600@60Hz, 640x480@60Hz
Color Space	RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit

Audio	
HDMI IN & HDBaseT OUT	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 - Feet	4K - Meters	1080p - Feet	1080p - Meters
CAT5e/6	230	70	330	100
CAT6a/7	330	100	330	100
HDMI IN/OUT	15	5	30	10

Signal	
Maximum TMDS Clock	300 MHz
HDBaseT	10.2 Gbps
HDMI	2.0
HDCP	1.4 / 2.2
CEC	2.0

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	
Consumption	24.75 W
Supply	Input: 100 - 220 V AC, 50/60 Hz, Output: 24 V / 2.7 A DC

Dimensions	Inches	Millimeters
H x W x D (w/o feet)	1.02 x 8.40 x 9.17	26 x 213.5 x 233
H x W x D (w/ feet)	1.22 x 8.40 x 9.37	31 x 213.5 x 233

Weight	Pounds	Kilograms
Device	2.97	1.35

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