HDBaseT Scaler
with HDMI and Analog Outputs

Introduction

The Atlona **AT-HDVS-150-RX** is an HDBaseT receiver and HD scaler for video signals up to 1080p, plus embedded audio over distances up to 230 feet (70 meters). The HDVS-150-RX is designed for use with the HDVS-150-TX switching transmitters, and together serve as a compact, automated AV system with the convenience of automatic input selection, display control, and HD scaling. The HDVS-150-RX remotely powers the HDVS-150-TX through Power over Ethernet (PoE). The HDVS-150-RX offers advanced scaling capabilities including image adjustment capability, and a feature for automatically matching incoming signals to the display's native resolution. Integrated scaling and video processing help optimize image quality and switching performance. This receiver also features audio de-embedding and third-party RS-232 control of the scaler, switcher, and display. The HDVS-150-RX combines the benefits of HD scaling and integrated display control, and the advantages of HDBaseT signal extension. It incorporates many popular integration convenience features while delivering excellent value for classrooms, huddle rooms, and meeting spaces. The HDVS-150-RX can be surface-mounted for easy installation behind a display or above a projector. When used in conjunction with an HDVS-150-TX transmitter, the HDVS-150-RX can provide control to a display through RS-232, without the need for a separate control system. This simplifies system design and integration while reducing costs. With automatic display control, the HDVS-150-RX can trigger a display to power on automatically whenever a laptop or other device is connected to the HDVS-150-TX. At the end of the presentation, when the presenter disconnects the laptop, the HDVS-150-RX forces the display to power off. Ease of presenter interaction with the system, and the savings incurred by automatic display shutdown provide a significant return on investment. The HDVS-150-RX display control capability can also be triggered by an external control system.

Applications

- The HDVS-150-RX is ideal for use in complete system applications with HDVS-150-TX transmitters to provide a two or three-input AV system supporting HDMI and VGA signals, auto-switching, display control, and scaling plus 230 foot (70 meter) extension to displays.

Key Features

Audio de-embedding

- Provides two channel, analog audio signal on balanced captive screw connectors.
- Improves AV system audio with the use of an external amplifier such as the Atlona AT-PA100-G2.

Long distance HDMI extension

- Receives HDMI and VGA/Audio signals up to 230 ft (70m) @ 1080p over CAT6a/7 and 197 feet (60 m) @ 1080p over CAT5e/6.
- Uses easy-to-integrate category cable for low-cost, reliable system installation.

HD video scaler with HDMI output and input resolution control

- Scales video signals up to 1080p/60Hz and 1920×1200.
- Set desired input resolution from 800×600 to 1920×1200 for a PC source.
- Incoming signals can be automatically scaled to the display's native resolution.

EDID management

- Manages EDID communications with a source connected to the HDVS-150-TX.
- Allows integrators to set or match a PC's graphics resolution.

HDCP management

- HDCP compliance can be disengaged through the on-screen menu, control software, or a control system.
- Allows non-protected material from PCs to pass to non-compliant displays, streaming devices, and teleconference systems; protected content is not transmitted.

RS-232 scaler and switcher control

- Input switching (at the AT-HDVS-150-TX), image adjustments, resolution settings, and auto-set to display's native resolution can be made from a third party control system.
- Seamless integration with larger, control system-based AV systems.

RS-232 display control

- Facilitates On/Off display control; Included software simplifies programming.
- Eliminates need for complex control system in small AV system.

Power over Ethernet for AT-HDVS-150-TX

- Industry standard IEEE 802.3af PoE supplied by the receiver over HDBaseT.
- No local AC outlet required at the AT-HDVS-150-TX switcher; saves time and integration costs.

Field-updatable firmware

- Rear panel USB port provides an easy means for device updates.
- Ensures long-term system return on investment.

Included accessories

- User guide and external universal power supply.

Award-winning 10 year limited product warranty

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

Specifications

Video		
Signal Type	HDMI	
HDCP	1.4	
Pixel Clock	300MHz	
UHD/HD/SD	1080p@60/59.94/50/30/29.97/25/24/23.98Hz 1080i@60/59.94/50Hz 720p@60/59.94/50/30/29/25Hz	576p 576i 480p 480i
VESA	1920×1200RB 1680×1050 1600×1200 1600×900 1440×900 1400×1050 1366×768 1280×1024	1280×960 1280×800 1280×768 1152×854 1024×768 800×600 720×400 640×480
Scaler Up/Down	1080p@60/59.94/50/30/29.97/25/24/23.98Hz, 1080i@60/59.94/50Hz, 720p@60/59.94/50/30/29/25Hz, 1920×1200RB, 1680×1050, 1600×1200, 1600×900 1440×900, 1400×1050, 1366×768, 1280×1024, 1280×960, 1280×800, 1280×768 1152×854, 1024×768, 800×600, 720×400, 640×480	
Color Space	YUV, RGB	
Chroma Subsampling	4:4:4, 4:2:2	
Color Depth	8-bit, 10-bit, 12-bit	

Audio	
Analog Output	PCM 2Ch (de-embedded)
HDMI Out / HDBaseT In	PCM 2.0
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

Control				
RS-232	Device control and configuration Bidirectional pass-through from control system over HDBaseT Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200			
CEC Support	Yes			

Resolution / Distance	1080p - Feet / Meters	
HDMI IN/OUT	15	10
CAT5e/6	200	60
CAT6a/7	230	70

Buttons and Indicators	
Buttons: MENU, UP, DOWN,	3 - momentary, tact-type
Indicators: PW LINK	1 - LED, green 3 - LED, yellow

Connectors	
HDBaseT IN	1 - RJ45, female
HDMI OUT	1 - Type A, 19-pin female
AUDIO OUT	1 - 5-pin captive screw, balanced / unbalanced 2-channel
RS-232	1 - 3-pin captive screw
FW	1 - mini-USB
PWR	1 - Euroblock, 5 mm pitch, 48 V DC

Temperature	Fahrenheit	Celsius
Operating	32 to 104	0 to 40
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 90%, non-condensing	

Power		
Consumption	15W (varies per paired transmitter)	
BTU/h	25.6	
Supply	Input: 100 - 240 V AC, 50/60 Hz Output: 48 V / 3.125A DC	

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.18 x 4.8 x 4.92	30 x 122 x 125
Power Supply	1.42 x 1.81 x 4.41	36 x 46 x 112

Weight	Pounds	Kilograms
Device	0.67	0.31

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

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

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