Three-Input
Switcher for HDMI and VGA
with HDBaseT Output

Introduction

The Atlona **AT-HDVS-150-TX** is a 3×1 switcher and HDBaseT transmitter with two HDMI inputs and a VGA input with audio. Video signals up to 1080p, plus embedded audio can be transmitted up to 230 feet (70 meters). The HDVS-150-TX is designed for use with the AT-HDVS-150-RX receiver and HD scaler, and can serve as the central component of a compact, automated AV system with the convenience of automatic input selection and display control. The switcher is remotely powered by the HDVS-150-RX through Power over Ethernet (PoE).

The HDVS-150-TX combines the benefits of auto-switching and integrated display control, and the advantages of HDBaseT signal transmission. It incorporates many popular integration convenience features while delivering excellent value for classrooms, huddle rooms, and meeting spaces.

Surface mounting brackets are provided with the HDVS-150-TX for easy under-table, furniture, or on-wall installation.

The Atlona **AT-HDVS-150-TX-PSK** is identical to the AT-HDVS-150-TX, with the addition of local powering capability and an external power supply. This makes it ideal for extending AV and control directly to a projector with an HDBaseT input. The AT-HDVS-150-TX can serve as the central component of a small, automated AV system through automatic input selection, and by sending RS-232 control commands to the display. With automatic display control capability, the AT-HDVS-150-TX can power the display on or off whenever a source is connected or disconnected from the unit.

Applications

- Education environments
- Corporate environments

Key Features

3×1 HDBaseT switcher

- Features two HDMI inputs plus a VGA input with audio.*

- Allows advanced HDMI display devices to be used with legacy VGA sources.

Designed for point-to-point extension to the AT-HDVS-150-RX HD scaling receiver

- Extends AV up to 230 feet (70 meters) @ 1080p or 1920×1200.

- Provides a cost-effective yet compact, automated AV system with the convenience of automatic input selection and display control.

Long distance HDMI extension

- Transmits AV up to 230 feet (70 meters) @ 1080p or 130 feet (40 meters) @ 4K/UHD** using CAT6a/7 cable

- Uses easy-to-integrate category cable for low-cost, reliable system installation

Remotely powered via PoE (Power over Ethernet)

- EIEEE 802.3af PoE Powered Device (PD).

- Power for transmitter is supplied by AT-HDVS-150-RX over HDBaseT.

Automatic input selection using hot plug detection

- Selects active input when sources are connected or if there is a change in source power status.

- Enables simplified, automatic system operation with no user intervention necessary.

Automatic display control (when connected to the HDVS-150-RX)

- Automatically changes display power state based on active or standby mode of the switcher (in conjunction with the HDVS-150-RX). Control signals to display are transmitted via RS-232.

- Eliminates the need for a complex control system.

Front panel input selection and on/off controls

- Overrides auto-switching when more than one active source is present.

- Simple manual operation allows presenter to maintain control of AV system.

Field-updatable firmware

- Rear panel USB port provides an easy means for device updates.

- Ensures long-term system return on investment.

Front panel power and input selection status LEDs

- LED indicators provide power and input selection status information.

- Provides easy setup and troubleshooting.

Included accessories

- User guide and surface mounting brackets.

- Power supply (**AT-HDVS-150-TX-PSK** only) - ideal for point-to-point installations with an HDBaseT-equipped projector.
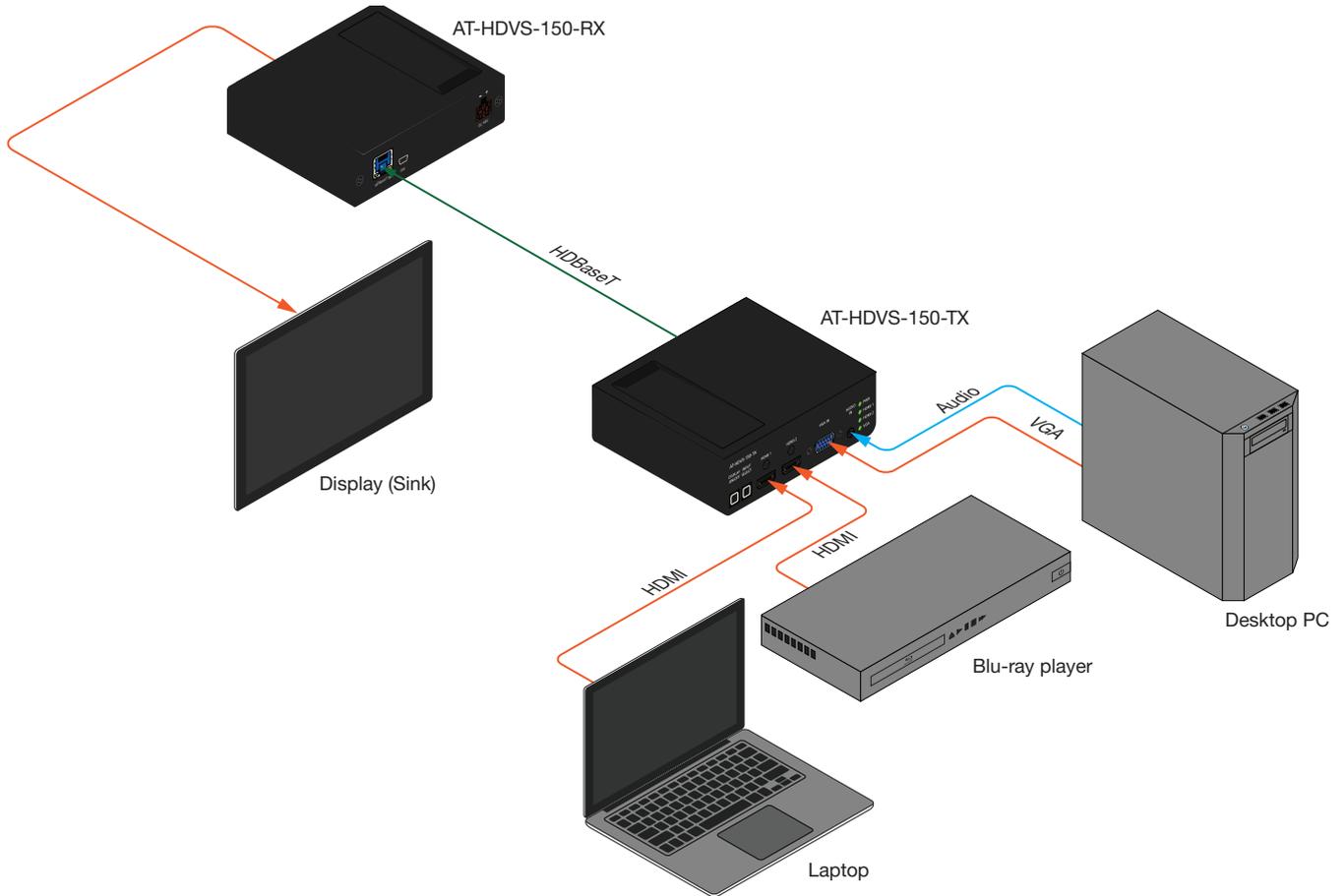
Award-winning 10 year limited product warranty

- Ensures long-term product reliability and performance in commercial and residential systems.

- Specify, purchase, and install with confidence.

Audio signals will not pass without an accompanying video signal.

**Allows 4K/UHD transmisstion when used with a compatible HDBaseT receiver.*

Connection Diagram

AT-HDVS-150-RX

Display (Sink)

HDBaseT

AT-HDVS-150-TX

Audio

VGA

HDMI

HDMI

Desktop PC

Blu-ray player

Laptop

Specifications

Video	
HD/SD	4096x2160@24/25/30/50*/60Hz*, 3840x2160@24/25/30/50*/60Hz* (UHD), 2048x1080p, 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	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 1024x768, 800x600, 640x480
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0*
Color Depth	8-bit, 10-bit, 12-bit

Audio	
Analog In	PCM 2Ch
HDMI In / HDBaseT Out	PCM 2Ch
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	10.2 Gbps			
CEC	Yes			
HDCP	1.4			

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	AT-HDVS-150-TX	AT-HDVS-150-TX-PSK
Consumption	18.7 W (when paired)	18.7 W (when paired)
Idle Consumption	N/A	22 W
Supply	N/A	Input: 100 - 240 V AC, 50/60 Hz Output: 48 V DC, 3.125 A

Dimensions	Inches	Millimeters
H x W x D	1.50 x 5.00 x 4.02	38 x 127 x 102

Weight	Pounds	Kilograms
Device	5.16	2.34

Certification	
Device	CE, FCC

4096×2160@50/60Hz & 3840×2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only.