



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.⁽¹⁾
- 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⁽²⁾ using CAT6a/7 cable
- Uses easy-to-integrate category cable for low-cost, reliable system installation

Remotely powered via PoE (Power over Ethernet)

- IEEE 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.

Specifications

| Video | | |
|----------------------------------|--|--|
| Signal | HDMI | |
| Copy Protection | HDCP 1.4 | |
| Pixel Clock | 300 MHz | |
| UHD/HD/SD | 4096x2160@60 ⁽³⁾ /50/30/25/24Hz 3840x2160@60 ⁽³⁾ /50/30/25/24Hz 1080p@60/59.9/50/30/29.97/25/ 24/23.98Hz 1080i@30/29.97/25Hz | 720p@60/59.94/50Hz 576p@50Hz 576i@25Hz 480p@60/59.96Hz 480i@30Hz |
| VESA All resolutions are 60Hz | 2560x1600 2048x1536 1920x1200 1680x1050 1600x1200 1440x900 1400x1050 1280x1024 | 1280x800 1366x768 1360x768 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 | |
|-------------|--|
| HDMI | PCM 2.0 |
| Bit Depth | up to 24-bit |
| Sample Rate | 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz |

| CEC | |
|------------|---------------------------------|
| Port | 1 x HDMI, Type A, 19-pin female |
| Triggering | RS-232 |

| Resolution / Distance | 4K/UHD - Feet / Meters | | 1080p - Feet / Meters | |
|-----------------------|------------------------|----|-----------------------|----|
| HDMI IN | 15 | 5 | 30 | 10 |
| CAT5e | 115 | 35 | 200 | 60 |
| CAT6/6a/7 | 130 | 40 | 230 | 70 |

| Buttons and Indicators | |
|--|--|
| Buttons: DISPLAY ON/OFF, INPUT SELECT | 2 x push buttons, momentary, tact-type |
| Indicators: PWR, HDMI 1, HDMI 2, VGA | 4 x LED, green |

| Connectors | |
|-------------------|---------------------------|
| HDMI IN | 2 - Type A, 19-pin female |
| VGA IN | 1 - 15-pin, VESA female |
| HDBaseT OUT | 1 - RJ45 |
| AUDIO IN | 1 - 3.6 mm, stereo |
| DC 48V (PSK only) | 1 - 2-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 | 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 |
| BTU/h | 18.8 | 18.8 |
| Supply | N/A | Input: 100 - 240 V AC, 50/60 Hz Output: 48 V DC, 3.125 A |
| Safety | N/A | CE, FCC, cULus |

| Dimensions (H x W x D) | Inches | Millimeters |
|--|--------------------|----------------|
| Unit | 1.50 x 5.00 x 4.02 | 38 x 127 x 102 |
| Power Supply (AT-PS-48083-D3) ⁽⁴⁾ | 1.42 x 1.81 x 4.41 | 36 x 46 x 112 |

| Weight | Pounds | Kilograms |
|--------|--------|-----------|
| Device | 0.64 | 0.29 |

| Certification | |
|---------------|---------------|
| Device | CE, RoHS, FCC |

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

Footnotes

- (1) Audio signals will not pass without an accompanying video signal.
 (2) Allows 4K/UHD transmission when used with a compatible HDBaseT receiver.
 (3) 4096x2160@50/60Hz & 3840x2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only.
 (4) Only included with AT-HDVS-150-TX-PSK.

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