

HDBaseT TX/RX with Three-Input Switcher and HD Scaler

AT-HDVS-150-KIT



The Atlona AT-HDVS-150-KIT is an HDBaseT extender kit that includes the AT-HDVS-150-TX 3x1 switcher and transmitter, and the AT-HDVS-150-RX receiver and HD scaler. The HDVS-150-TX features two HDMI inputs and a VGA input with audio. Video signals up to 1080p, plus embedded audio can be extended up to 230 feet (70 meters). The HDVS-150-KIT serves 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.

Package Contents

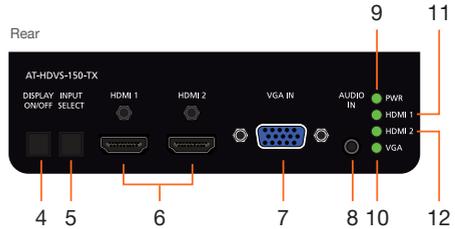
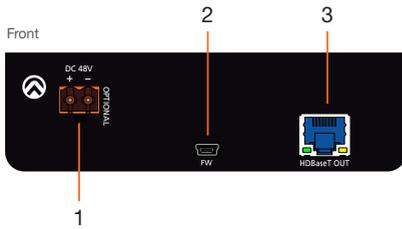
- 1 x AT-HDVS-150-TX
- 1 x AT-HDVS-150-RX
- 4 x Mounting brackets
- 8 x Mounting screws
- 1 x 2-pin captive screw connector
- 1 x 3-pin captive screw connector
- 1 x 5-pin captive screw connector
- 1 x 48V DC power supply
- 1 x Installation Guide



IMPORTANT: Visit <http://www.atlona.com/product/AT-HDVS-150-KIT> for the latest firmware updates and Installation Guide.



Panel Descriptions - Transmitter



- 1 DC 48V**
Connect the power supply to this port to power an HDBaseT receiver, projector, or other PoE device.



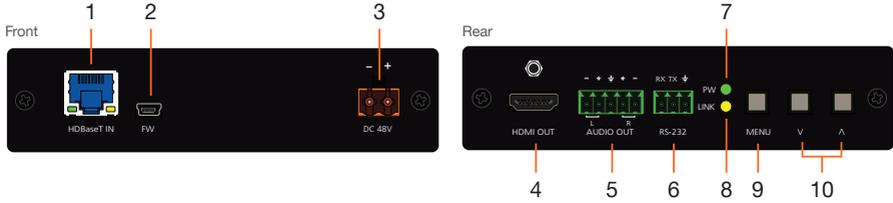
NOTE: The **DC 48V** port is only available on the AT-HDVS-150-TX-PSK.

- 2 FW**
Connect a mini USB to USB-A type cable from this port to a computer to update the firmware.
- 3 HDBaseT OUT**
Use a category cable to connect an HDBaseT PoE receiver to this port.
- 4 DISPLAY ON/OFF**
Press this button to power-on / power-off the display that is connected to the receiver.
- 5 INPUT SELECT**
Press this button to select the desired input.
- 6 HDMI 1 / HDMI 2**
Connect up to two HD sources using these HDMI ports.

- 7 VGA IN**
Connect a VGA source to this port.
- 8 AUDIO IN**
Connect a 3.5mm mini-stereo audio cable, from an analog audio source, to this port.
- 9 PWR**
This LED indicator will glow bright green when the switcher is powered.
- 10 VGA**
This LED indicator will glow bright green when the VGA IN port is selected.
- 11 HDMI 1**
This LED indicator will glow bright green when the HDMI 1 port is selected.
- 12 HDMI 2**
This LED indicator will glow bright green when the HDMI 2 port is selected.



Panel Descriptions - Receiver



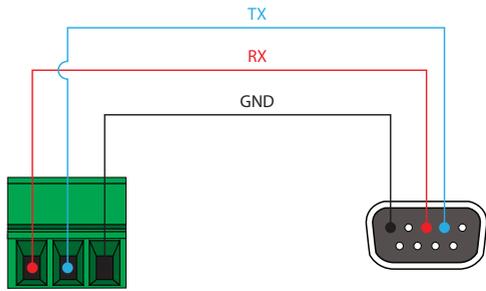
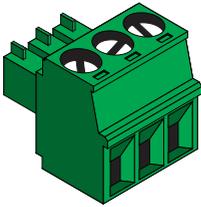
- 1 HDBaseT IN**
Use a category cable to connect an HDBaseT PoE transmitter to this port.
- 2 FW**
Connect a mini USB type-B cable to this port to update the firmware.
- 3 DC 48V**
Connect the included 48V DC power supply to this power receptacle.
- 4 HDMI OUT**
Connect an HDMI cable from this port to a display or other sink device.
- 5 AUDIO OUT**
Connect the included 5-pin captive screw connector from this port to an audio amplifier.
- 6 RS-232**
Connect the included 3-pin captive screw connector from this port to an RS-232 device.
- 7 PW**
This LED indicator will glow bright green when the scaler is powered.
- 8 LINK**
This LED indicator will glow bright amber when a link is established between the transmitter and receiver.
- 9 MENU**
Press this button to display the built-in On-Screen Display (OSD).
- 10 Cursor buttons**
Press these buttons to select items within the OSD.



RS-232

The AT-HDVS-150-RX provides RS-232 control between an automation system and an RS-232 device. This step is optional and is used when connecting a computer that is running the control software.

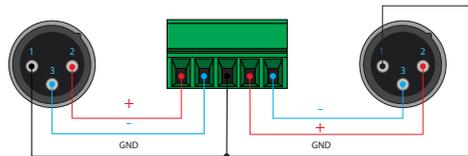
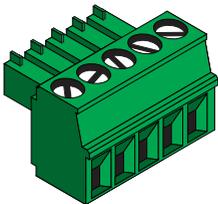
1. Use wire strippers to remove a portion of the cable jacket.
2. Remove at least 3/16" (5 mm) from the insulation of the RX, TX, and GND wires.
3. Insert the TX, RX, and GND wires into correct terminal on the included Phoenix block. If using non-tinned stranded wire, press the orange tab, above the terminal, while inserting the exposed wire. Repeat this step for the TX, RX, and GND connections.



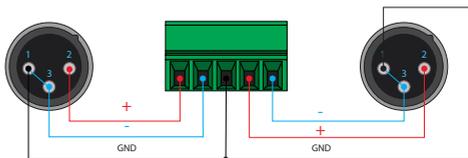
Audio

The **AUDIO OUT** connector on the AT-HDVS-150-RX provides the connection of either balanced or unbalanced audio outputs using XLR connectors. Use the included 5-pin captive screw connector.

Balanced audio connections use two signal wires and a ground to minimize interference in audio signals. Unbalanced audio connections use one signal wire and a ground and are used if system components don't support balanced signals.



Balanced



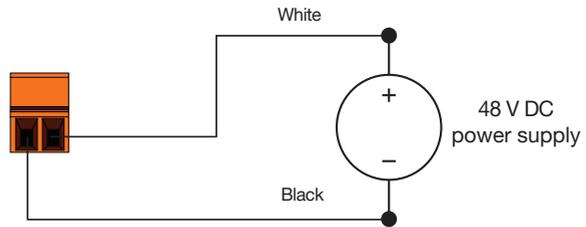
Unbalanced



Power

Locate the included orange captive screw connector and wire the included power supply to the block, as shown below. Do not use high-torque devices, when securing the wires to the captive screw connector, as this may damage the screws and/or connector block.

1. Insert the wires into the correct terminal on the included captive screw connector, as shown below.
2. Tighten the screws to secure the wires. Do not use high-torque devices as this may damage the screws and/or connector block.
3. Connect the captive screw connector to the DC 48V power receptacle on the AT-HDVS-150-RX.



Mounting Instructions

The AT-HDVS-150-KIT includes four mounting brackets and eight mounting screws, which provides the option of mounting each unit to any flat surface. The mounting procedure is the same for both the transmitter and receiver.

1. Position one of the mounting brackets, as shown below, aligning the holes on the side of the enclosure with one set of holes on the mounting bracket.
2. Use the enclosure screws to secure the mounting bracket to the enclosure.
3. Repeat the above steps to attach the second mounting bracket to the opposite side of the unit.



4. Mount the unit using the oval-shaped holes, on each mounting bracket. If using a drywall surface, a #6 drywall screw is recommended.



NOTE: Mounting brackets can also be inverted to mount the unit under a table or other flat surface.





Installation

1. Connect up to two HD sources, using HDMI cables, to the **HDMI 1** and **HDMI 2** inputs on the AT-HDVS-150-TX.
2. Connect a VGA cable from a VGA source to the **VGA IN** port on the AT-HDVS-150-TX.
3. Connect a 3.5 mm mini-stereo cable from the **AUDIO IN** port on the AT-HDVS-150-TX to the analog audio source. This port allows two-channel analog audio to be included when the **VGA IN** port is selected. Refer to the User Manual for more information.
4. Connect a category cable, up to 230 feet (70 meters), from the **HDBaseT OUT** port on the AT-HDVS-150-TX to the AT-HDVS-150-RX (or other PoE-compatible receiver). Category cables should use EIA/TIA-568B termination.



IMPORTANT: Using EZ RJ-45 connectors are being used, make sure that each twisted pair does not extend beyond the RJ-45 connector. Exposed twisted-pair wires may cause a short when connected to the **HDBaseT OUT** port.

5. Connect an HDMI cable from the display to the **HDMI OUT** port on the AT-HDVS-150-RX.
6. Connect a category cable, up to 230 feet (70 meters), from the **HDBaseT IN** port on the unit to the AT-HDVS-150-TX. Category cables should use EIA/TIA-568B termination.
7. Connect the included power supply to the **DC 48V** port on the AT-HDVS-150-RX. The AT-HDVS-150-TX will be powered over the category cable, by the AT-HDVS-150-RX.

Cable Recommendation Guidelines

Refer to the tables below for recommended cabling when using Atlona products with HDBaseT. The green bars indicate the signal quality when using each type of cable. Higher-quality signals are represented by more bars.

Core	Shielding	CAT5e	CAT6	CAT6a	CAT7
Solid	UTP (unshielded)	■	■■■	■■■■	N/A
	STP (shielded)	■■	■■■■	■■■■■	■■■■■



IMPORTANT: Stranded or patch cables are not recommended due to performance issues.



ATLONA
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Installation Guide

AT-HDVS-150-KIT

Version 1



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