Three-Input Switcher for HDMI and VGA Sources with Automatic Display Control and Ethernet-Enabled HDBaseT Output

AT-HDVS-200-TX-PSK Installation Guide

Please check http://www.atlona.com/product/AT-HDVS-200-TX-PSK for the most recent firmware update or manual.

The Atlona AT-HDVS-200-TX-PSK is a 3×1 switcher with two HDMI inputs, a VGA input with audio, and an HDBaseT output. Video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded audio and control signals can be transmitted up to 330 feet (100 meters). The two-channel audio input can be assigned to any of the video inputs and embedded for HDBaseT transmission. The AT-HDVS-200-TX-PSK is identical to the AT-HDVS-200-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-200-TX-PSK can serve as the central component of a small, automated AV system by sending control commands to the projector via RS-232 or Ethernet, and through automatic input selection. With automatic display control, the AT-HDVS-200-TX-PSK powers the projector on or off whenever a source is connected or disconnected from the unit.

Package Contents

- 1 x AT-HDVS-200-TX-PSK
- 1 x 48V power supply
- 1 x Captive screw connector (3 pin: RS-232)
- 1 x Pair of mounting brackets
- 1 x Installation Guide
Panel Description

1. **INPUT** button: Use to switch between VGA and HDMI sources
2. **DISPLAY** button: Can be programmed to perform different functions
   Default action will turn video output on/off for the switcher
   Send on/off command to CEC, RS-232, or TCP/IP controllable displays or other connected devices
   Sends RS-232 or TCP/IP trigger command when used with a compatible switcher (e.g., CLSO PoE series)
3. **VOLUME** buttons: Adjust output volume of the switcher or connected device when programmed
   Note: To mute or unmute output audio, press both volume buttons together. LED will turn red when muted
4. **HDMI 1** port: Connect first HDMI source here
5. **VGA IN** port: Connect VGA source here
6. **AUDIO IN** port: Connect analog audio here
7. **PW LED**: Will illuminate when receiving power
   **VGA LED**: Illuminates when VGA input selected
   **HDMI 1 LED**: Lights up when HDMI input 1 is selected
   **HDMI 2 LED**: Turns on when the second HDMI input is selected

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1. **FW** port: Firmware update port, connect a mini USB to USB A cable to a computer
   Firmware is downloadable through http://www.atlona.com/products/AT-HDVS-200-TX/
2. **RS-232** port: Connect control system here
3. **DC 48V** port: Connect included power supply here
4. **HDMI 2** port: Connect second HDMI source here
5. **LAN** (black) port: Connect network switch or router to this port for Ethernet, TCP/IP, or webGUI control
6. **HDBaseT OUT** (blue) port: Connect to an HDBaseT PoE receiver (e.g., AT-HDVS-200-RX or UHD-CLSO PoE series switcher/scalers)
   **Note:** To ensure compatibility, please be certain both transmitter and receiver have blue HDBaseT ports. This ensures both products are PoE (48V) compliant. The HDVS-200-TX is not compatible with PoCC (black RJ45, 24V) devices
Mounting

The HDVS-200-TX-PSK comes with mounting brackets that can be used to affix the unit to a table, desk, etc.

To affix the mounting brackets to the unit, use the four included screws. The bracket can be affixed with the oval holes pointing to the bottom (for against the wall - picture A) or the oval holes facing the top (for under tables - picture B).

Captive Screw

The captive screw connectors allow you to cut cables to a suitable length, reducing cable clutter while providing a more reliable connection.

Connecting

When connecting the cables to the female captive screw connector it is important that the wires be terminated correctly. The female captive screw connector has a contact plate at the top and must have the wires touching it for signal to pass. When wired correctly (see picture A) the signal will pass, incorrectly (see picture B) no signal will pass.

The captive screw connectors have a contact bar that is adjusted to compress the wire against the top contact plate. Use the screws at the top of the connector to compress the wire against the contact plate.

Clockwise

Turn the screws clockwise to raise the contact bar to the upper contact plate and hold the wires in place.

Counter Clockwise

Turn the screws counter clockwise to lower the contact bar to release the wires.
**RS-232**

RS-232 captive screw connector is included. RS-232 pin out will be determined by the RS-232 cable and will connect as Rx (receiver), Tx (transmitter), and G (ground). (See picture 1)

![RS-232 connector diagram]

Pin out color will differ per RS-232 cable.

**Typical pin out:**
2 - TX - Transmitter
3 - RX - Receiver
5 - GND - Ground

**Ethernet**

For convenience, the HDVS-200-TX-PSK comes with DHCP on. This enables the switcher to be connected to a network without knowing available IP addresses. If your network is not compatible with dynamic IP addresses or if you are using the switcher with a TCP/IP control system, DHCP may be turned off and a static IP address set using RS-232 commands or the webGUI.

To disable DHCP, use the following command: **IPDHCP off**. Once disabled, set the IP address using the IPStatic command (e.g. IPStatic 192.168.1.56).

**webGUI**

The HDVS-200-TX-PSK provides a built-in webGUI for easy setup and control.

To find the IP address of the switcher, connect the HDVS-200-TX-PSK to a terminal using an RS-232 cable, and use the following settings: baud rate: 115200, data bits: 8, flow control: None, stop bits: 1. Use the IPCFG command to display the IP address. Launch a web browser and enter the IP address of the switcher.

A login screen will appear (this is the same log in for admin and general users). The login for the webGUI will be username “root” and password “Atlona”.

![WebGUI login screen]

Toll free: 1-877-536-3976
Local: 1-408-962-0515
Connection Diagram (with PoE UHD-CLSO series)
Troubleshooting

1. The Auto-Switch feature isn’t working. How do I enable it?
   
   You can enable Auto-switching by using the AutoSW command, via TCP/IP or RS-232. Auto-switching can also be enabled through the On-Screen Display (OSD) or the webGUI.

2. I want to pass only analog audio without video. How do I do this?
   
   Place the unit in “standalone” mode. This mode can be enabled using the FreeRun on command via TCP/IP or RS-232, or through the webGUI.

3. How do I update the firmware?
   
   The firmware can be updated using the USB port or through the webGUI.

4. How do I find the IP address?
   
   Run the IPCFG command using either RS-232 or TCP/IP. You can also get the IP address through the webGUI and AMS.

5. How do I switch between DHCP and Static IP modes?
   
   For the AT-HDVS-200-TX-PSK, DHCP can be turned on/off by pressing the INPUT button for 15 seconds. For the AT-HDVS-200-RX, DHCP can be turned on/off by pressing the AUTO button for 15 seconds. You can also toggle between DHCP and Static IP modes using the IPDHCP command via TCP/IP or RS-232, or by using the webGUI or AMS.

6. What is the default IP address?
   
   The default static IP address is 192.168.1.254. Please note that the default static IP for both the transmitter (HDVS-200-TX-PSK) and the receiver (HDVS-200-RX) are the same.

7. I can’t control my display. What’s wrong?
   
   First, check that the desired control method is selected (TCP/IP, RS-232, or CEC). If you are using RS-232, make sure that the baud rate for RXZone 1 (found under the webGUI) matches your display settings. The baud rate can be set through the webGUI or by using the RxRSparaZ1 command via TCP/IP or RS-232. When using the RxRSparaZ1 command, use the following syntax: RxRSparaZ1[baudrate,data-bits,parity,stop-bits]. Example: RxRSparaZ1[115200,8,0,1]