ATLONA®
Connecting Technology

# Ethernet-Enabled
# HDBaseT™ Scaler
## with HDMI and Analog Audio Outputs

# Version Information

| Version | Release Date | Notes |
| --- | --- | --- |
| 1 | 01/16 | Initial release |
| 2 | 05/17 | Updated |
| 3 | 07/17 | New format |

# Welcome to Atlona!

Thank you for purchasing this Atlona product.  We hope you enjoy it and will take a extra few moments to register your new purchase.

Registration only takes a few minutes and protects this product against theft or loss.  In addition, you will receive notifications of product updates and firmware.  Atlona product registration is voluntary and failure to register will not affect the product warranty.

To register your product, go to http://www.atlona.com/registration

# Sales, Marketing, and Customer Support

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# Operating Notes

⚠️ **IMPORTANT:** Visit http://www.atlona.com/product/AT-HDVS-200-TX and http://www.atlona.com/product/AT-HDVS-200-TX-PSK for the latest firmware updates and User Manual.

# Atlona, Inc. ("Atlona") Limited Product Warranty

**Coverage**

Atlona warrants its products will substantially perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service.

Under its Limited Product Warranty, Atlona, at its sole discretion, will either:

- repair or facilitate the repair of defective products within a reasonable period of time, restore products to their proper operating condition and return defective products free of any charge for necessary parts, labor and shipping.

                                   OR

- replace and return, free of charge, any defective products with direct replacement or with similar products deemed by Atlona to perform substantially the same function as the original products.

                                   OR

- refund the pro-rated value  based on the remaining term of the warranty period, not to exceed MSRP, in cases where products are beyond repair and/or no direct or substantially similar replacement products exist.

Repair, replacement or refund of Atlona products is the purchaser's exclusive remedy and Atlona liability does not extend to any other damages, incidental, consequential or otherwise.

This Limited Product Warranty extends to the original end-user purchaser of Atlona products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

**Coverage Periods**

Atlona Limited Product Warranty Period begins on the date of purchase by the end-purchaser. The date contained on the end-purchaser 's sales or delivery receipt is the proof purchase date.

**Limited Product Warranty Terms – New Products**

- 10 years from proof of purchase date for hardware/electronics products purchased on or after June 1, 2013.

- 3 years from proof of purchase date for hardware/electronics products purchased before June 1, 2013.

- Lifetime Limited Product Warranty for all cable products.

**Limited Product Warranty Terms – Refurbished (B-Stock) Products**

- 3 years from proof of purchase date for all Refurbished (B-Stock) hardware and electronic products purchased on or after June 1, 2013.

**Remedy**

Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products.  Atlona can also be contacted directly. Visit www.atlona.com for Atlona's contact information and hours of operation. Atlona requires that a dated sales or delivery receipt from an authorized dealer, reseller or end-purchaser is provided before Atlona extends its warranty services. Additionally, a return merchandise authorization (RMA) and/or case number, is required to be obtained from Atlona in advance of returns.

Atlona requires that products returned are properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization or case number will be refused. Atlona, at its sole discretion, reserves the right to reject any products received without advanced authorization. Authorizations can be requested by calling 1-877-536-3976 (US toll free) or 1-408- 962-0515 (US/international) or via Atlona's website at www.atlona.com.

**Exclusions**

This Limited Product Warranty excludes:
- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packaging or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.

- Damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Atlona to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.

- Equipment enclosures, cables, power supplies, batteries, LCD displays, and any accessories used in conjunction with the product(s).

- Products purchased from unauthorized distributors, dealers, resellers, auction websites and similar unauthorized channels of distribution.

**Disclaimers**

This Limited Product Warranty does not imply that the electronic components contained within Atlona's products will not become obsolete nor does it imply Atlona products or their electronic components will remain compatible with any other current product, technology or any future products or technologies in which Atlona's products may be used in conjunction with. Atlona, at its sole discretion, reserves the right not to extend its warranty offering in instances arising outside its normal course of business including, but not limited to, damage inflicted to its products from acts of god.

**Limitation on Liability**

The maximum liability of Atlona under this limited product warranty shall not exceed the original Atlona MSRP for its products. To the maximum extent permitted by law, Atlona is not responsible for the direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

**Exclusive Remedy**

To the maximum extent permitted by law, this limited product warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. To the maximum extent permitted by law, Atlona specifically disclaims all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If Atlona cannot lawfully disclaim or exclude implied warranties under applicable law, then all implied warranties covering its products including warranties of merchantability and fitness for a particular purpose, shall provide to its products under applicable law. If any product to which this limited warranty applies is a "Consumer Product" under the Magnuson-Moss Warranty Act (15 U.S.C.A. §2301, ET SEQ.) or other applicable law, the foregoing disclaimer of implied warranties shall not apply, and all implied warranties on its products, including warranties of merchantability and fitness for the particular purpose, shall apply as provided under applicable law.

**Other Conditions**

Atlona's Limited Product Warranty offering gives legal rights, and other rights may apply and vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of products have been removed or defaced, (ii) products are not purchased from an authorized Atlona dealer or reseller. A comprehensive list of Atlona's authorized distributors, dealers and resellers can be found at www.atlona.com.

# Important Safety Information

**CAUTION**
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCT THE RISK OF
ELECTRIC SHOCK
DO NOT OPEN ENCLOSURE OR EXPOSE
TO RAIN OR MOISTURE.
NO USER-SERVICEABLE PARTS
INSIDE REFER SERVICING TO
QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.

The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this product near water.

6. Clean only with a dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.

11. Only use attachments/accessories specified by Atlona.

12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.

13. Unplug this product during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.

# FCC Statement
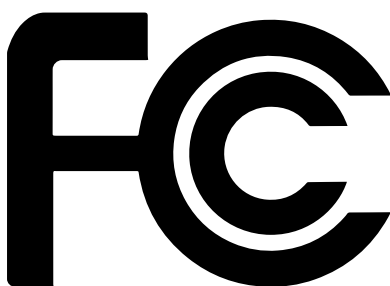
FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

# Table of Contents

# Introduction

The Atlona **AT-HDVS-200-TX** is a 3×1 switcher and HDBaseT transmitter with two HDMI inputs and a VGA input with audio. Video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded audio, control, and Ethernet 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 HDVS-200-TX is designed for use with the AT-HDVS-200-TX receiver and HD scaler, but can also be used with the AT-UHD-EX-100CE-RX-PSE receiver for 4K/UHD extension, as well as Atlona switchers and matrix switchers with HDBaseT inputs. This transmitter can serve as an integral component of a fully automated AV system, with the convenience of automatic input selection and display control. It is remotely powered by the HDVS-200-RX or other Atlona HDBaseT-equipped devices through Power over Ethernet (PoE).

The Atlona **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 HDVS-200-TX-PSK can serve as the central component of a compact, fully automated AV system with the convenience of automatic input selection, and by sending RS-232 or Ethernet control commands to the projector. With automatic display control capability, the HDVS-200-TX-PSK can power the projector on or off whenever a source is connected or disconnected from the unit.

# Features

- 3×1 HDBaseT™ switcher with two HDMI® inputs and one VGA input
- Ideal for the AT-HDVS-200-TX scaling receiver and Atlona HDBaseT-equipped switchers
- HDBaseT transmitter for A/V, Ethernet, power, and control up to 330 feet (100 meters)
- 4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling (with the AT-UHD-EX-100CE-RX-PSE receiver)
- Includes external power supply (AT-HDVS-200-TX-PSK only) – ideal for point-to-point installations with an HDBaseT-equipped display or projector.
- Automatic input selection and automatic display control
- Front panel input selection, display on/off, and volume control
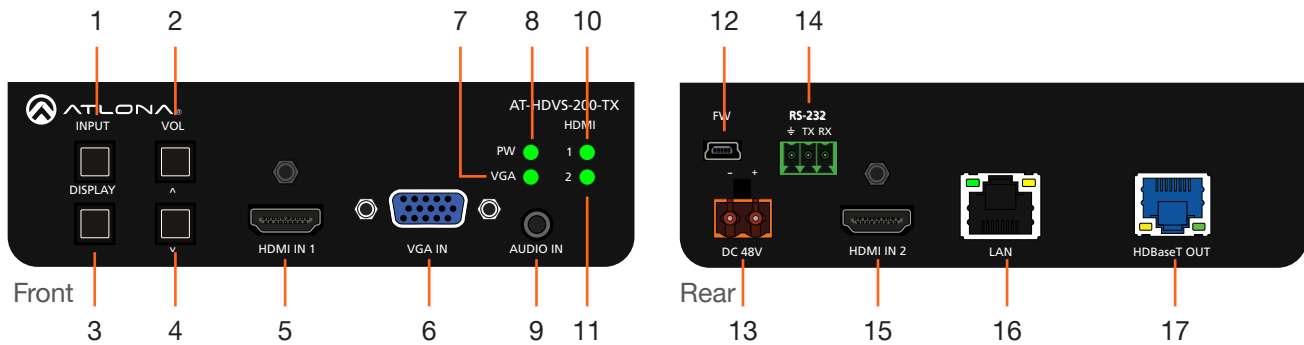- TCP/IP and RS-232 control

# Package Contents

**AT-HDVS-200-TX**

1 x AT-HDVS-200-TX
1 x Captive screw connector, 3-pin
1 x Mounting brackets
1 x Installation Guide

**AT-HDVS-200-TX-PSK**

1 x AT-HDVS-200-TX-PSK
1 x Captive screw connector, 3-pin
1 x 48V DC power supply
1 x Mounting brackets
1 x Installation Guide

# Panel Description



Front

Rear

1   INPUT
    Press this button to cycle through each of the
    available inputs:  **HDMI IN 1**, **HDMI IN 2**, and **VGA
    IN**.

2   VOL
    Press this button to adjust the volume on the
    connected display and to select items within the
    OSD.

3   DISPLAY
    Press this button to show the On-Screen Display
    (OSD), increase the volume level on the display, and
    select items within the OSD.  This button will glow
    bright blue when the unit is powered.

4   DOWN CURSOR
    Press this button to scroll down within the OSD or
    decrease the volume level on the display.

5   HDMI IN 1
    Connect an HDMI cable from this port to an HD
    source.

6   VGA IN
    Connect a VGA cable from this port to a VGA source.

7   VGA
    This LED indicator will glow bright green when the
    VGA IN port is selected.

8   PW
    This LED indicator will glow bright green when the
    switcher is powered.

9   AUDIO IN
    Connect a 3.5mm mini-stereo audio cable, from an
    analog audio source, to this port.

10  HDMI 1
    This LED indicator will glow bright green when the
    **HDMI IN 1** port is selected.

11  HDMI 2
    This LED indicator will glow bright green when the
    **HDMI IN 2** port is selected.

12  FW
    Connect a mini USB to USB-A type cable from this
    port to a computer to update the firmware.
    Refer to Updating the Firmware (page 65) for more
    information.

13  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-200-TX-PSK.

14  RS-232
    Connect the included 3-pin Phoenix block from this
    connector to an RS-232 device.

15  HDMI IN 2
    Connect an HDMI cable from this port to an HD
    source.

16  LAN
    Connect an Ethernet cable from this port to the
    network.

17  HDBaseT OUT
    Use an Ethernet cable to connect an HDBaseT PoE
    receiver to this port.

# Installation

## RS-232 Connector

The AT-HDVS-200-TX provides RS-232 control between an automation system and an RS-232 device.  This step is optional.

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, presss the orange tab, above the terminal, while inserting the exposed wire.   Repeat this step for the TX, RX, and GND connections.
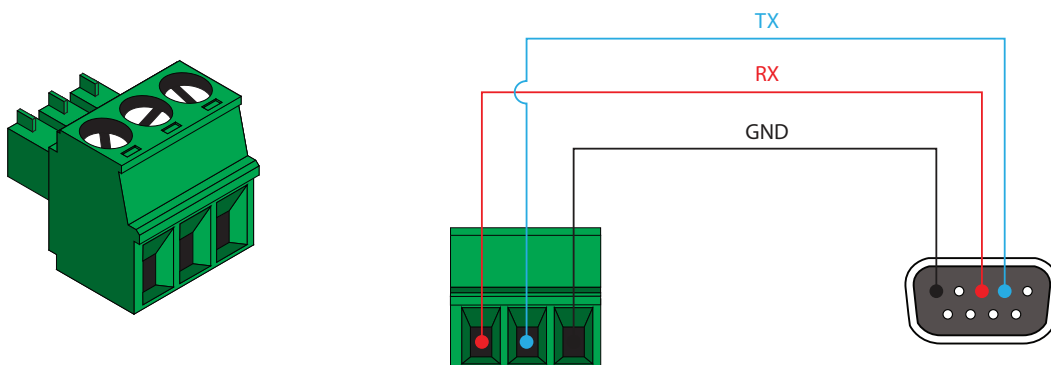


## Connection Instructions

**AT-HDVS-200-TX / AT-HDVS-200-TX-PSK**

1.  Connect an HDMI cable between the HD source and the **HDMI IN 1** port on the switcher.

2.  Connect another HDMI cable between another HD source and the **HDMI IN 2** port on the switcher.

3.  Connect a VGA cable from a VGA source to the **VGA IN** port on the switcher.

4.  Connect a 3.5 mm mini-stereo cable from the **AUDIO IN** port on the switcher to the analog audio source. The AT-HDVS-200-TX can pass audio either with or without a video signal.  Refer to the **Audio Freerun Status** option under the Audio page (page 19).

5.  Connect an Ethernet cable, up to 330 feet (100 meters), from the **LAN** port on the switcher to a Local Area Network (LAN).  Refer to ## for information on switching between DHCP and static IP modes.

    **IMPORTANT**: If EZ RJ-45 connectors are being used to terminate Ethernet cable, 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 **LAN** port.
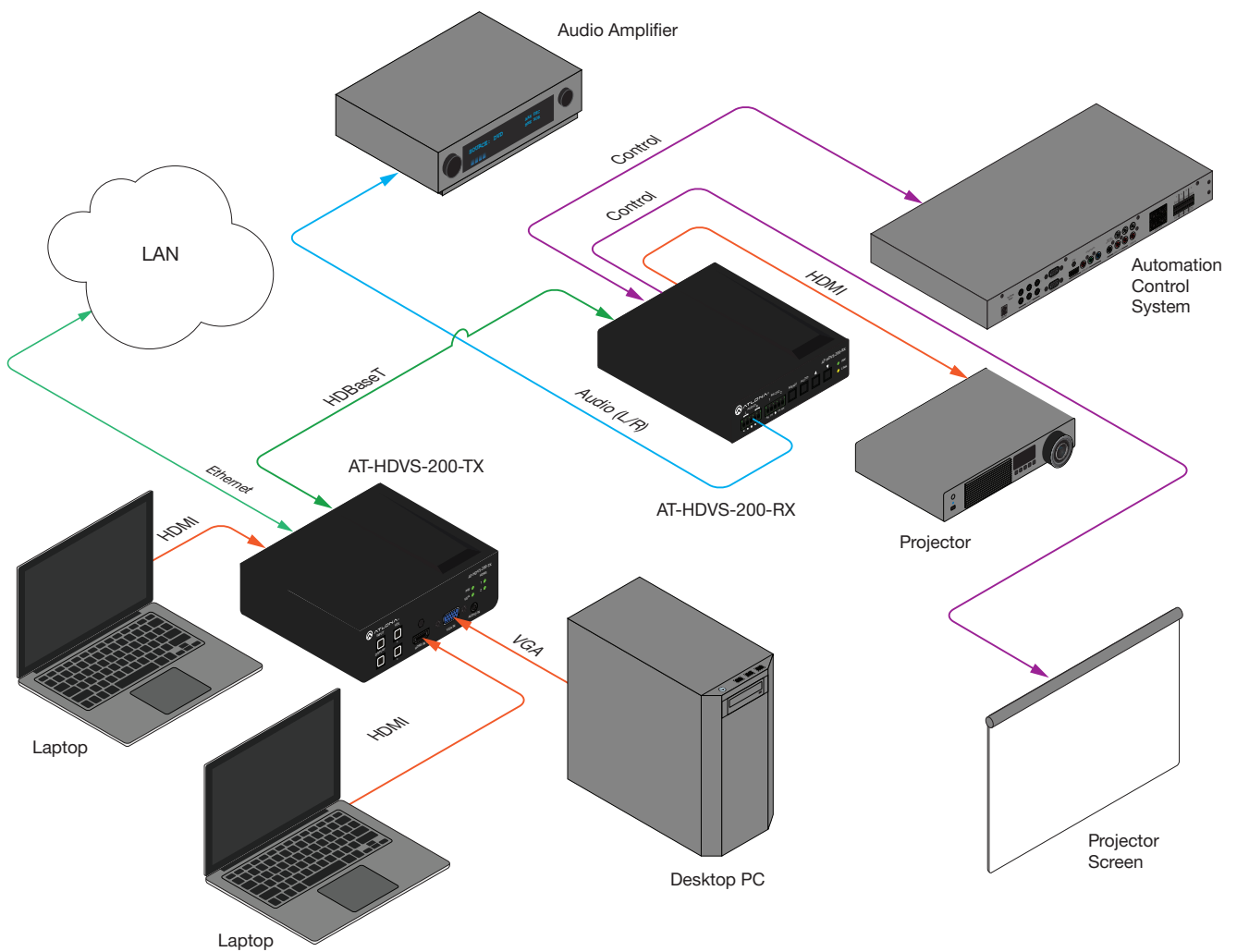
6.  Connect an HDMI cable from the **HDMI OUT** port on the switcher to an HD display.

7.  Connect an Ethernet cable, up to 230 feet (70 meters), from the **HDBaseT OUT** port on the switcher to a PoE-compatible transmitter (not included).  Ethernet cables should use EIA/TIA-568B termination.

8.  OPTIONAL: Connect an RS-232 device, such as a projector, to the **RS-232** port on the switcher.

    No power supply is required for the AT-HDVS-200-TX.  This unit will be powered over the Ethernet cable, from an HDBaseT receiver.

**AT-HDVS-200-TX-PSK Only**

9.  Connect the included power supply to the **DC 48V** port.  Powering the AT-HDVS-200-TX-PSK will provide power to other HDBaseT receivers or projectors that require power.

10. Connect the power supply to an available AC outlet.

## Connection Diagram



Audio Amplifier

Control

Control

LAN

HDMI

Automation Control System

HDBaseT

Audio (L/R)

AT-HDVS-200-TX

Ethernet

AT-HDVS-200-RX

Projector

HDMI

Laptop

VGA

HDMI

Projector Screen

Laptop

Desktop PC

# IP Configuration

The AT-HDVS-200-TX is shipped with DHCP enabled.  Once connected to a network, the DHCP server (if available), will automatically assign an IP address to the unit.  Use an IP scanner, along with the MAC address on the bottom of the unit, to identify both the unit and its IP address on the network.  If a static IP address is desired, the unit can be switched to static IP mode.  Use one of the following procedures to switch between DHCP and static IP mode. The default static IP address of the AT-HDVS-200-TX is 192.168.1.254.

## Using the Front Panel

1. Make sure the AT-HDVS-200-TX is powered.

2. Press and hold the **INPUT** button for approximately 15 seconds.

PW LED indicator

AT-HDVS-200-TX
HDMI
VOL
PW   1
VGA   2
DISPLAY
HDMI IN 1    VGA IN    AUDIO IN

3. Release the **INPUT** button once the **PW** LED indicator begins to flash.  The number of flashes will indicate the currently selected IP mode.

| PW LED flashes | Description |
|---|---|
| Two | Static IP mode |
| Four | DHCP mode |

## Using Commands

Use the IPStatic and IPDHCP commands to switch between DHCP and IP mode through RS-232 or Telnet.  Refer to Commands (page 35), for more information.  All commands and their arguments are case-sensitive.

- **Setting static IP mode**

    1. Connect to the AT-HDVS-200-TX using RS-232 or Telnet.

    2. At the command line, execute the IPDHCP command using the off argument, as shown.

        IPDHCP off

    3. Execute the IPStatic command.  This command requires three arguments:  the desired IP address of the AT-HDVS-200-TX, the subnet mask, and the gateway address.  All arguments must be entered in dot-decimal notation.  The following is an example:

        IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

- **Setting DHCP mode**

  1. Connect to the AT-HDVS-200-TX using RS-232 or Telnet.

  2. At the command line, execute the IPDHCP command using the on argument, as shown. All characters are case-sensitive.

     IPDHCP on

     Once DHCP is enabled, the unit will be assigned an IP address by the DHCP server (if present).

## Using the Web GUI

The System page (page 28), in the web GUI, allows the AT-HDVS-200-TX to use either DHCP or static IP mode. In order to access the web GUI, the IP address of the AT-HDVS-200-TX must be known.

  1. Open the desired web browser and enter the IP address of the AT-HDVS-200-TX.

  2. Log in, using the required credentials. The factory-default username and password are listed below:

     **Username:** root
     **Password:** Atlona

  3. Click the **System** tab.
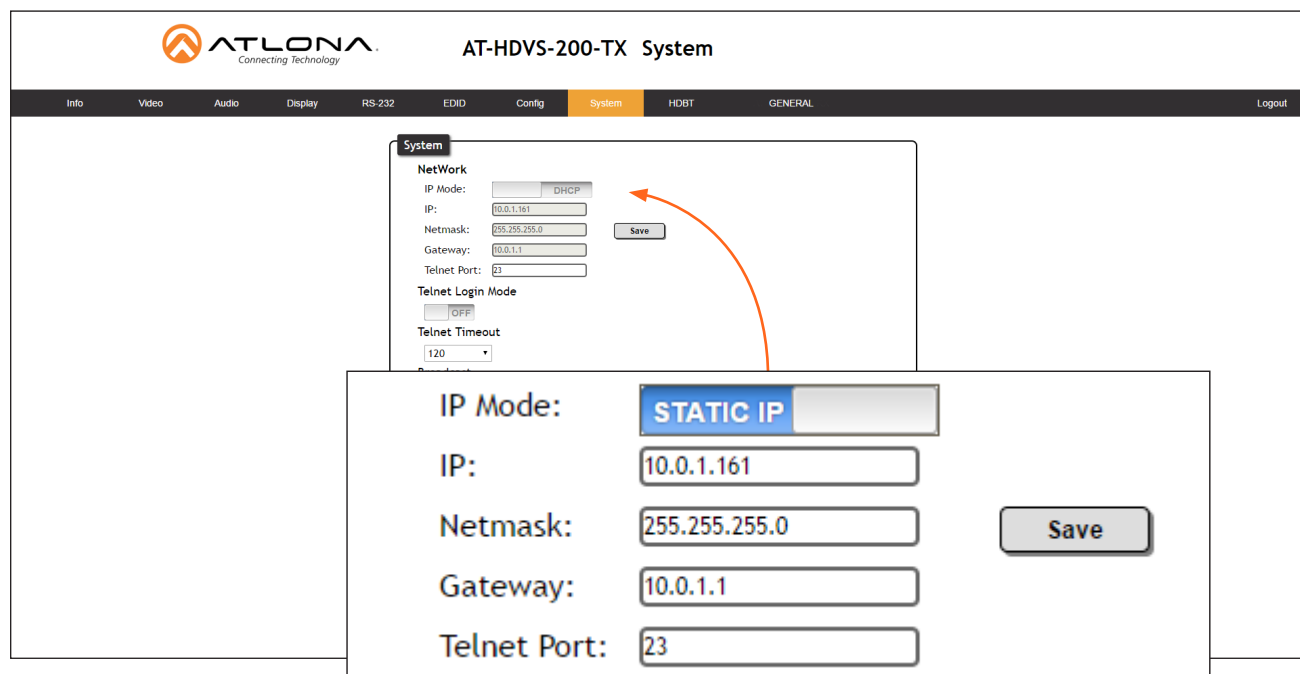


  4. Click the **IP Mode** toggle to switch between the **DHCP** and **STATIC IP** setting.

     When set to **STATIC IP**, the **IP**, **Netmask**, and **Gateway** fields can be modified.

  5. Click the **Save** button to save the changes.

# The Web GUI

## Introduction to the Web GUI

The AT-HDVS-200-TX includes a built-in web GUI. Atlona recommends that the web GUI be used to set up the AT-HDVS-200-TX, as it provides intuitive management of all features.

The AT-HDVS-200-TX is shipped with DHCP enabled. Once connected to a network, the DHCP server will automatically assign an IP address to the unit. Use an IP scanner to determine the IP address of the AT-HDVS-200-TX. If a static IP address is desired, refer to IP Configuration (page 12). The default static IP address of the AT-HDVS-200-TX is 192.168.1.254.

1. Launch a web browser.

2. In the address bar, type the IP address of the AT-HDVS-200-TX.

3. The **Login** page will be displayed.
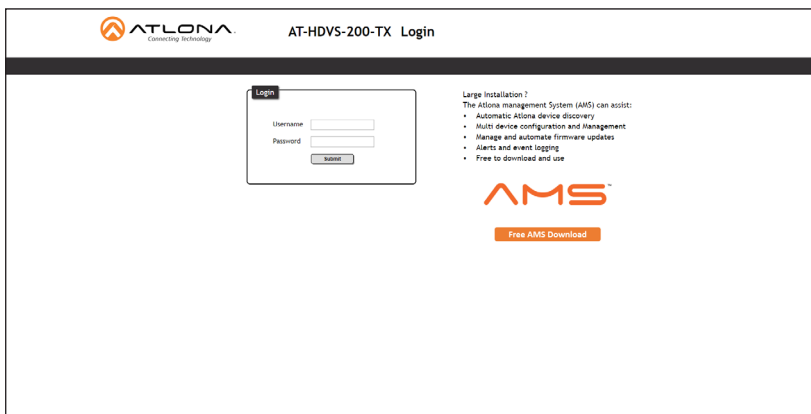


4. Type root, using lower-case characters, in the **Username** field.

5. Type Atlona in the **Password** field. This is the default password. The password field is case-sensitive. When the password is entered, it will be masked. The password can be changed, if desired. Refer to the Config page (page 27) for more information.

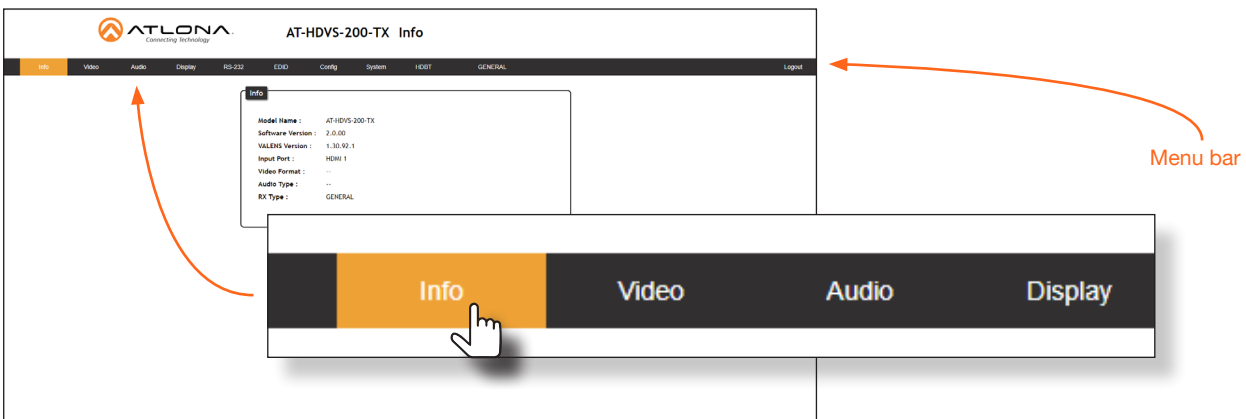6. Click the **Submit** button or press the ENTER key on the keyboard.
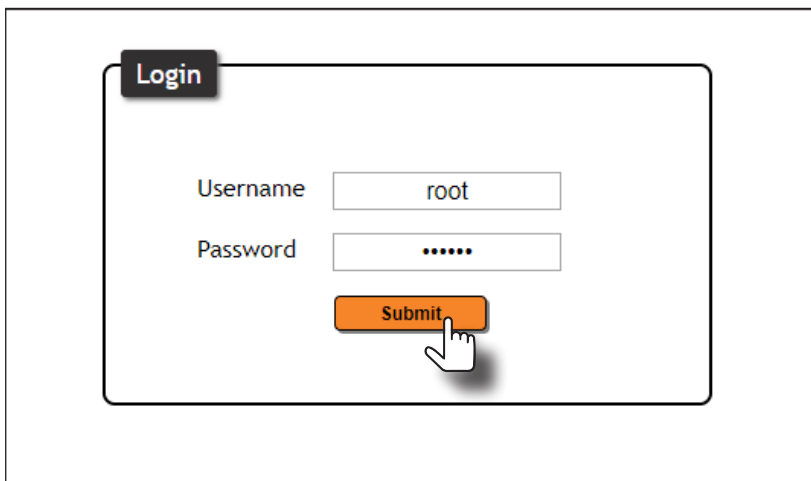
7. The **Info** page will be displayed.
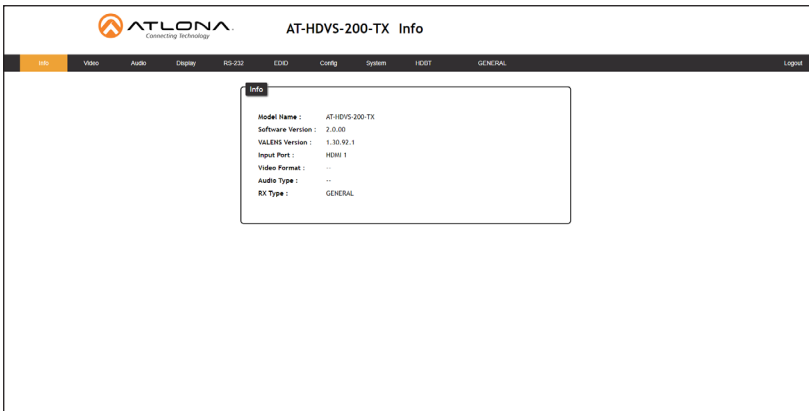


## Menu Bar

The dark-colored bar, near the top of the screen, is the menu bar. When the mouse is moved over each menu element, it will be highlighted in light orange. Once the desired menu element is highlighted, click the left mouse button to access the settings within the menu.
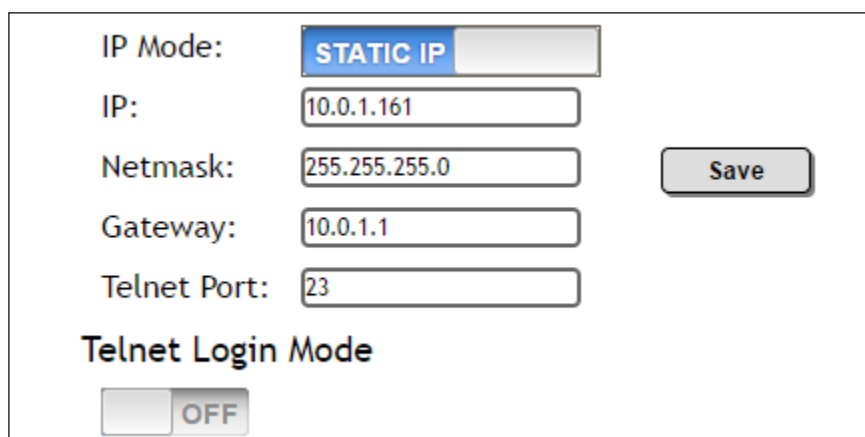


Menu bar

In this example, clicking **Video**, in the menu bar, will display the **Video** page.
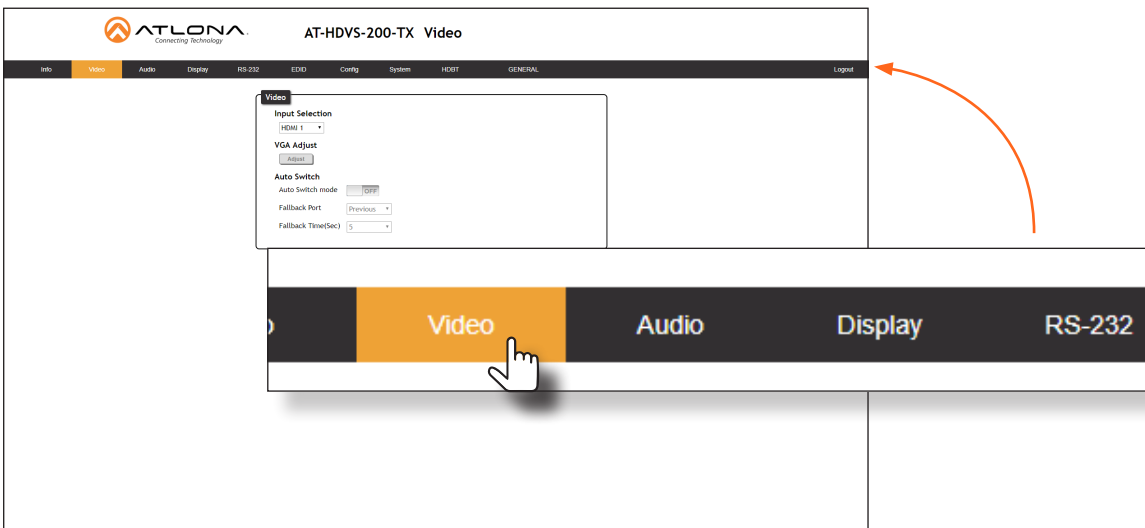
## Toggles

Several settings within the Web GUI use *toggles*, which enable, disable, or assign one of two settings. Generally, when the *toggle* is blue, it means that the feature is *enabled* or ON. If a feature is *disabled*, then the *toggle* will appear gray and be labeled as OFF. Toggle buttons may also indicate its current setting and, when enabled or set to a particular state, may also provide access to another set of controls or text fields within the Web GUI, as shown with the **IP Mode** toggle.
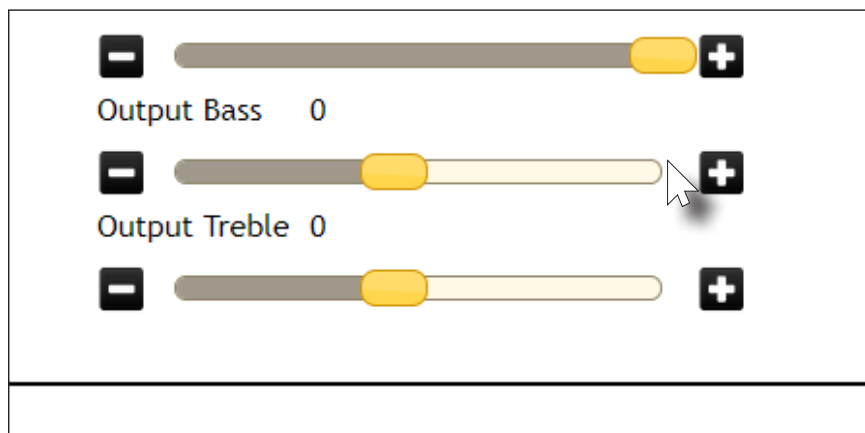


## Sliders

Click and drag slider controls to change their value.



## Buttons

Buttons are used to execute an action or setting. Several pages within the Web GUI include a **Save** button. Clicking the **Save** button will apply and save all settings in the current page. Other buttons, such as the **Factory Defaults** button, under the **System** page, will reset the AT-HDVS-200-TX to factory-default settings.

## Info page

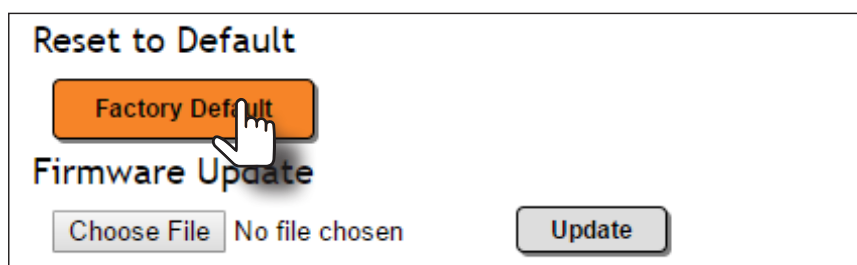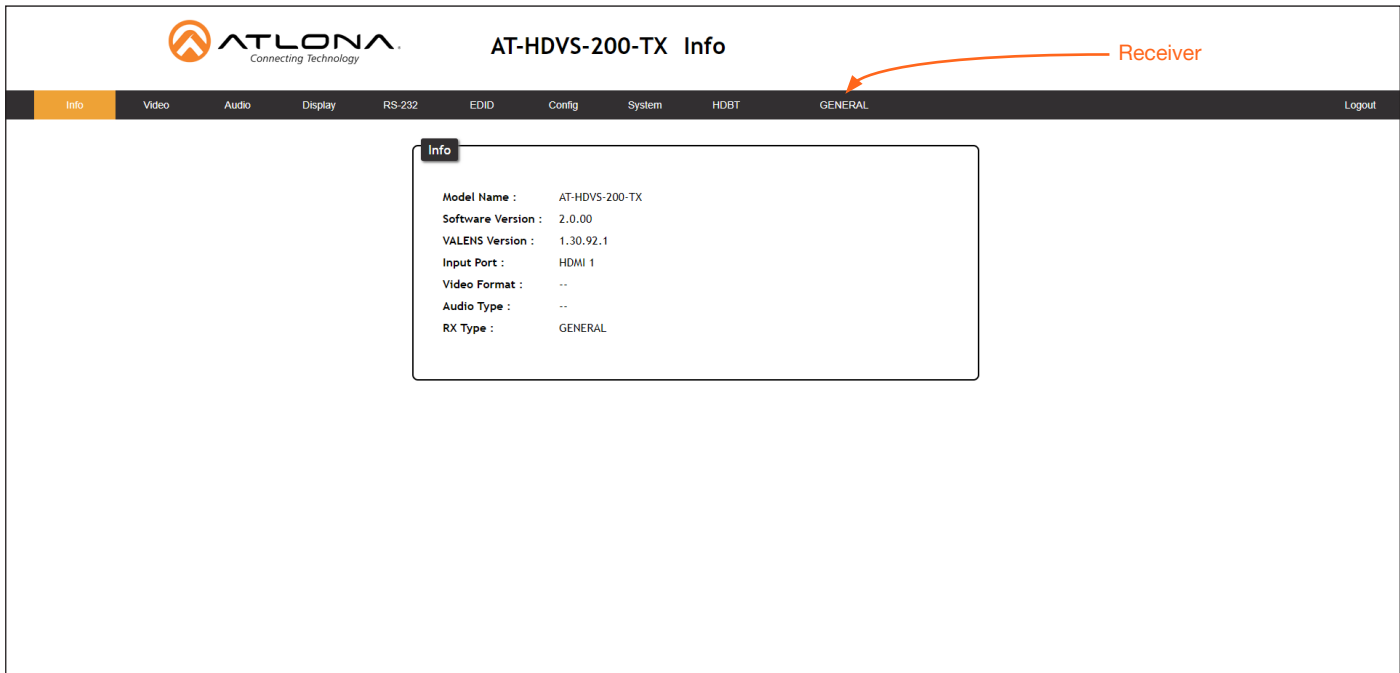After logging in, the Info page will be displayed. The **Info** page provides basic information about the receiver, including the model name, software version, input video timing, and the device being using as the transmitter.



**Model Name**
The model SKU of this product.

**Software Version**
The version of firmware that the AT-HDVS-200-TX is running. Always make sure to check the AT-HDVS-200-TX product page, on the Atlona web site, for the latest version of firmware.

**VALENS Version**
The version of firmware used by the Valens chipset.

**Video Format**
Displays the input resolution of the source device.

**TX Type**
The version of the boot loader.

**Receiver name**
If the AT-HDVS-200-TX is connected to a receiver, other than the AT-HDVS-200-RX, then the text "GENERAL" will be displayed in the menu ribbon. However, if connected to the AT-HDVS-200-RX (using the **HDBaseT** port), this text will change to the name of the device and acts as a hyperlink to the AT-HDVS-200-RX web GUI. When the AT-HDVS-200-TX is connected to the AT-HDVS-200-RX, the system will be placed in *kit mode*. In *kit mode*, additional options will be available under the **Video** page and the **RS-232** page. Refer to Kit Mode (page 31) for more information.

# Video page
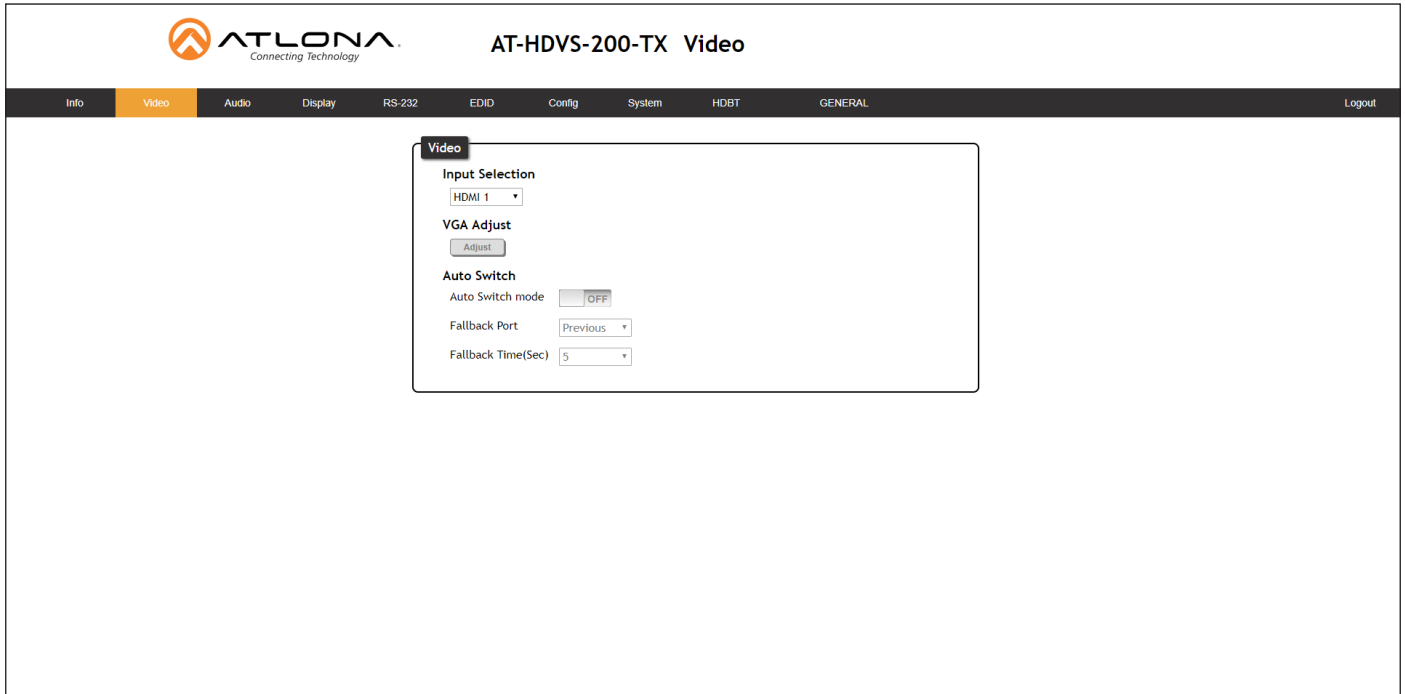


**Input Selection**
Click this drop-down list to select the desired input.

**VGA Adjust**
In most situations, adjustment of the VGA signal should not necessary. However, if the VGA signal does not appear correctly, click the **Adjust** button to automatically correct the clock and phase.

**Auto Switch**
Three controls are available under the Auto Switch feature.
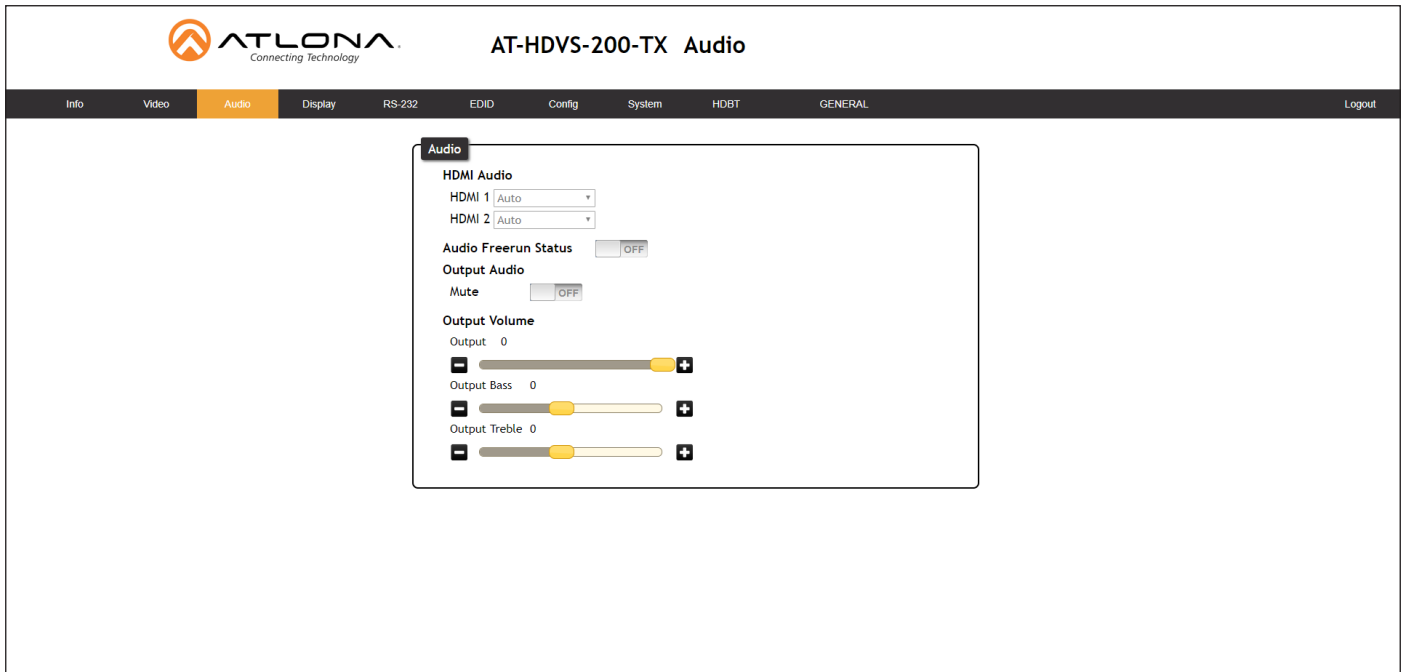
• Click the **Auto Switch** mode toggle to enable or disable auto-switching.

• Click the **Fallback Port** drop-down list to select the fallback port. If the source is disconnected from the active port, then the switcher can be configured to automatically switch to the desired port. Click the **Auto Switch** mode toggle to enable or disable auto-switching.

| Setting | Description |
|---|---|
| HDMI 1 | Automatically switches to HDMI 1. |
| HDMI 2 | Automatically switches to HDMI 2. |
| VGA | Automatically switches to VGA. |
| Previous | The switcher will return to the previous (last connected) input. If no input is found, then it will attempt to switch to a ternary port. |

• Click the **Fallback Time (Sec)** drop-down list and select the time interval before the switcher attempts to search for the next port. Range: 3 to 600.

When the system is in *kit mode*, additional options will be available. Refer to Kit Mode (page 31) for more information.

# Audio page



**HDMI Audio**
These drop-down lists are only available when the system is in kit mode.  Refer to Kit Mode (page 31) for more information.

**Audio Freerun Status**
Audio can be passed, without the presence of a video signal.  To enable this functionality, click the **Audio Freerun Status** toggle to the ON position.  To pass both video and audio, this toggle must be set to the OFF position.

⚠️ **IMPORTANT**: Setting the **Audio Freerun Status** to ON is not recommended.   When set to ON, both video auto switching and display control are disabled.

**Mute**
Click this toggle to the **OFF** position to mute all audio on the output.

**HDMI Audio**
Click this toggle to the **OFF** position to mute only the HDMI audio.

**Output**
Click and drag this slider bar to adjust the output audio volume.  Range: -80 to 0.

**Output Bass**
Click and drag this slider bar to adjust the bass of the audio output.  Range: -12 to 15.

**Output Treble**
Click and drag this slider bar to adjust the treble of the audio output.  Range: -12 to 15.

**L/R Audio**
Click this toggle to the **OFF** position to mute only the analog audio.

**Output**
Click and drag this slider bar to adjust the output audio volume.  Range: -80 to 0.

**Output Bass**
Click and drag this slider bar to adjust the bass of the audio output.  Range: -12 to 15.

**Output Treble**
Click and drag this slider bar to adjust the treble of the audio output.  Range: -12 to 15.

## Display page



## CEC

**CEC Command**

Click the ON button to send the power-on command to the display device.  Click the **OFF** button to toggle the power state to off.

## System Settings

**Display Auto Power On**
Sends the command to power-on the display when an A/V signal is detected.  Click the toggle to enable or disable this feature.  Otherwise, set to DISABLED.

**Display Auto Power Off**
Sends the command to power-off the display when an A/V signal is no longer present.  Click the toggle to enable or disable this feature.  Otherwise, set to DISABLED.

**Power Button Lock**
Allows the **DISPLAY** button, on the front panel, to be locked, preventing accidental operation when the product is in use.  Click the toggle to enable or disable this feature.

**Lamp Cool Down Timer**
Sets the cool-down interval, in seconds, before the projector can be powered-off. During this time interval, the projector will not accept any commands until the "power off" command has been processed and the projector lamp has completed the cool-down cycle.  Range: 0 to 300.

**Display Warm Up Timer**
Sets the time interval, in seconds, between when the display is powered on and when the **DISPLAY** button, on the front panel, will be locked.  Range: 0 to 300.

**Auto Power Off Timer**
Sets the time interval, in seconds, between when the loss of A/V signal is detected and when the "Display Off" command is sent.  Range: 5 seconds to 1 hour.

**Control Type**
Sets the control method for sending commands. The following options are available:  RS-232, IP, CEC.

| Setting | Description |
| --- | --- |
| RS-232 | RS-232 is used to send commands. |
| IP | Commands are sent over IP. |
| CEC | Uses CEC to send commands. |

**Feedback Verify**
Sets the feedback verification state. Click the toggle to enable or disable this feature.  The following options are available.

| Setting | Description |
| --- | --- |
| On | This is the default setting.  The AT-HDVS-200-TX will make four attempts to send the command, if the feedback string is not acknowledged. After the fourth attempt, the process will fail. |
| Off | Sends the command and ignores the feedback string. |

**Display Mode**
Click this drop-down list to select the display mode.

| Setting | Description |
|---|---|
| DispSW AVon | Display switches on/off, source audio/video signal always on. |
| DispSW AVSW | Display switches on/off, source audio/video signal switches on/off. |
| AV SW | Display is always on, source audio/video signal switches on/off |

**Volume / Mute**
Click this drop-down list to select the control method for volume and muting.

| Setting | Description |
|---|---|
| AudOut | Volume and mute buttons will control volume level of the output. |
| RS-232 | Volume/Mute buttons will send the commands using RS-232 to compatible extenders and displays. |
| IP | Volume/Mute buttons will send the commands over Ethernet using the LAN connection. |

## TCP/IP Settings of Controlled Devices

**IP Mode**
Click this drop-down list to select the control method for volume and muting.

| Setting | Description |
|---|---|
| Non-login | Does not require a username and password when using TCP/IP to control the display. |
| RS-232 | Requires a username and password to control the display through TCP/IP. |

**IP Address**
Enter the IP address of the display in this field.

**Port**
Enter the listening port of the device in this field.

**Username**
Enter the username for login.

**Password**
Enter the password for login.

## RS-232 / IP Commands

**Send Mode**
Sets the type of commands that are sent to the display, either **ASCII** or **Hex**.

**On/Off/Volume+/Volume-/Mute**

- **Set command**
  Enter the command in this field.

- **Feedback**
  Enter the feedback string in this field.

- **CR-LF**
  Click this drop-down list to select the desired end-of-line characters to be sent.

| Setting | Description |
| --- | --- |
| None | No end-of-line characters included |
| CR | Carriage return |
| LF | Line feed |
| CR-LF | Carriage return + Line feed |
| Space | Space character |
| STX | Start-of-text character |
| ETX | End-of-text character |
| Null | Null character (binary zero) |

# RS-232 page
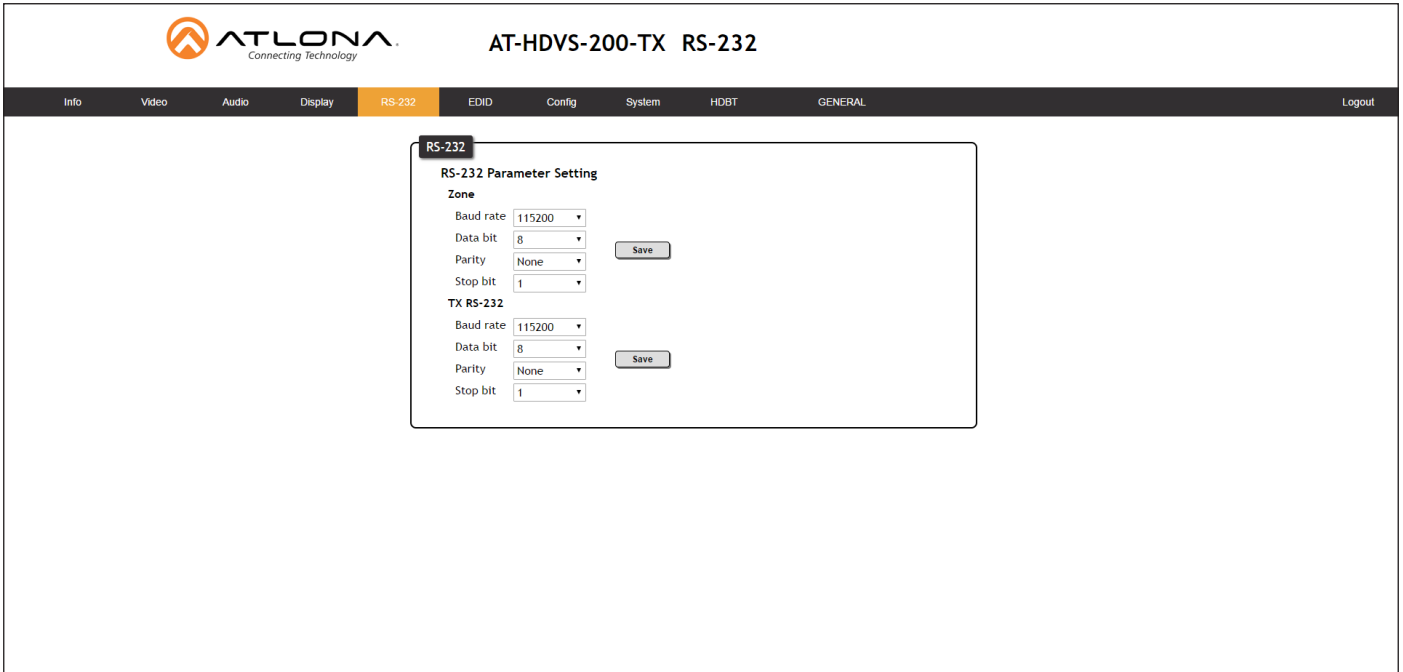


**Zone**
When the AT-HDVS-200-TX is connected to the AT-HDVS-200-RX, the system is placed in *kit mode*.  In this mode, the drop-down list boxes will be disabled and the HDBaseT baud rate will be locked at 115200.

If the AT-HDVS-200-TX is connected to another HDBaseT device, such as the AT-UHD-CLSO-824, each of these drop-down list boxes can be set to the baud rate of the HDBaseT RS-232 settings on the corresponding device.

**TX RS-232**
The RS-232 settings of the RS-232 port on the AT-HDVS-200-TX.  Click the **Save** button to save the settings.

| Setting | Description |
|---------|-------------|
| Baud rate | Sets the baud rate.  The following options are available: 2400, 9600, 19200, 38400, 56000, 57600, 115200. |
| Data bit | Sets the number of data bits used to represent each character of data.  The following options are available:  7 or 8. |
| Parity | Sets the parity bit, which can be included with each character to detect errors during the transmission of data.  The following options are available:  None, Odd, or Even. |
| Stop bit | Sets the stop bit.  Stop bits are sent at the end of each character, allowing the client to detect the end of a character stream.  The following options are available:  1 or 2. |

# EDID page
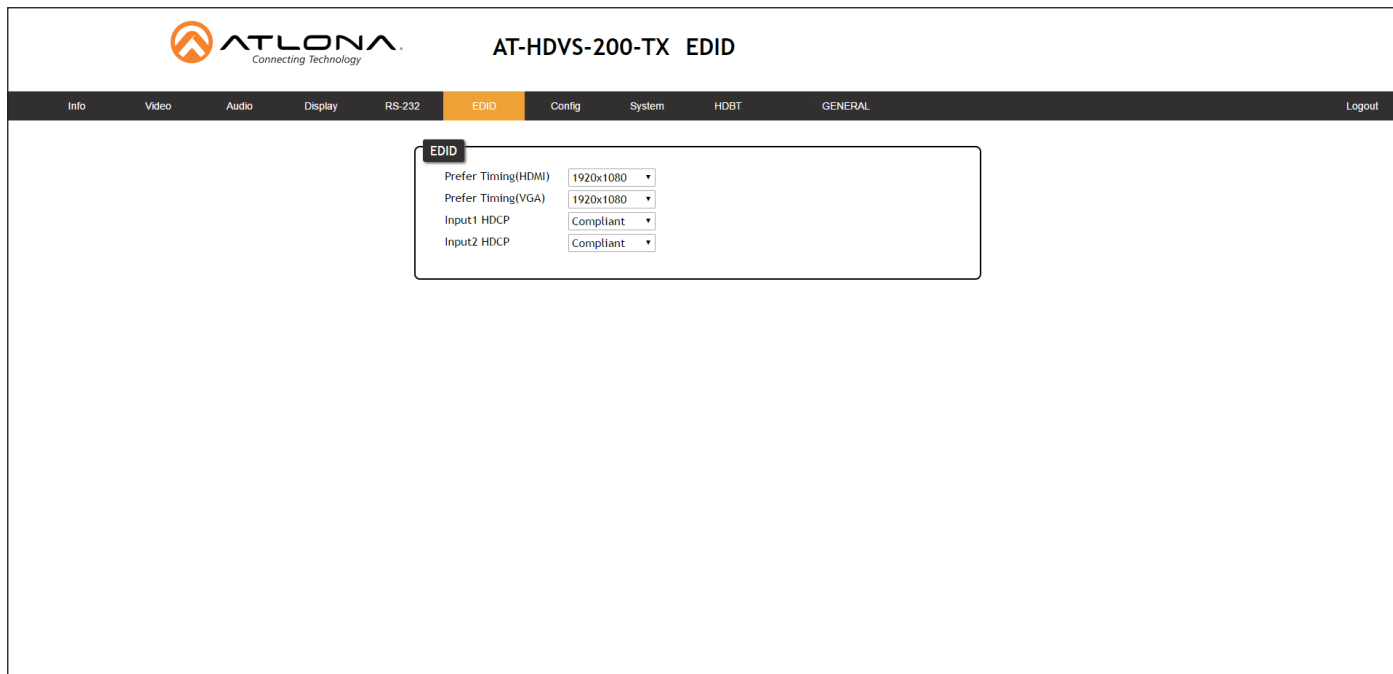


**Perfer Timing (HDMI)**
Adjusts the brightness setting of the output signal.  Range: 0 - 128.

**Prefer Timing (VGA)**
Adjusts the contrast setting of the output signal.  Contrast is the difference between the lightest and darkest area of an image.  Range: 0 - 128.

**Input1 HDCP / Input2 HDCP**
Provides control over the transmission of HDCP content for the **HDMI IN 1** and **HDMI IN 2** ports.  The following options are available:
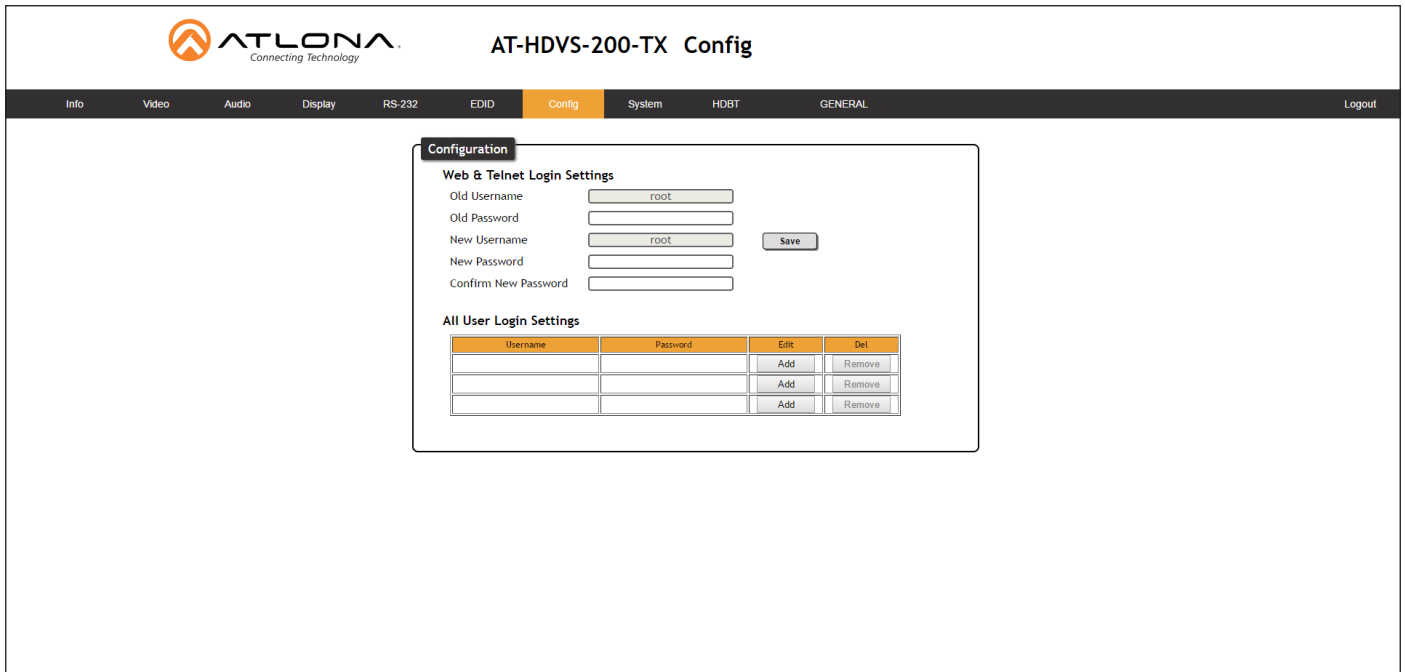
- **Compliant** - Forces detection of HDCP-compliant sink devices.  If the sink device is not HDCP-compliant, then no content will be transmitted.

- **Noncompliant** - Suppresses detection of HDCP-compliant sink devices, allowing non-HDCP content to be transmitted.

- **Auto** - Automatically detects the presence of HDCP-compliant sink devices.  If an HDCP-compliant display is detected, then HDCP content will be sent.  Otherwise, non-HDCP content will be sent.

**NOTE:**  The HDCP control feature does *not* provide decryption of HDCP content to non-HDCP sink devices.

## Config page



**Old Username**
This field cannot be changed. "root" is the administrator user.

**Old Password**
Enter the current password for the "root" username in this field. The default password is "Atlona".

**New Username**
This field cannot be changed.

**Save**
Click this button to save all changes.

**New Password**
Enter the new password fro the "root" username in this field.
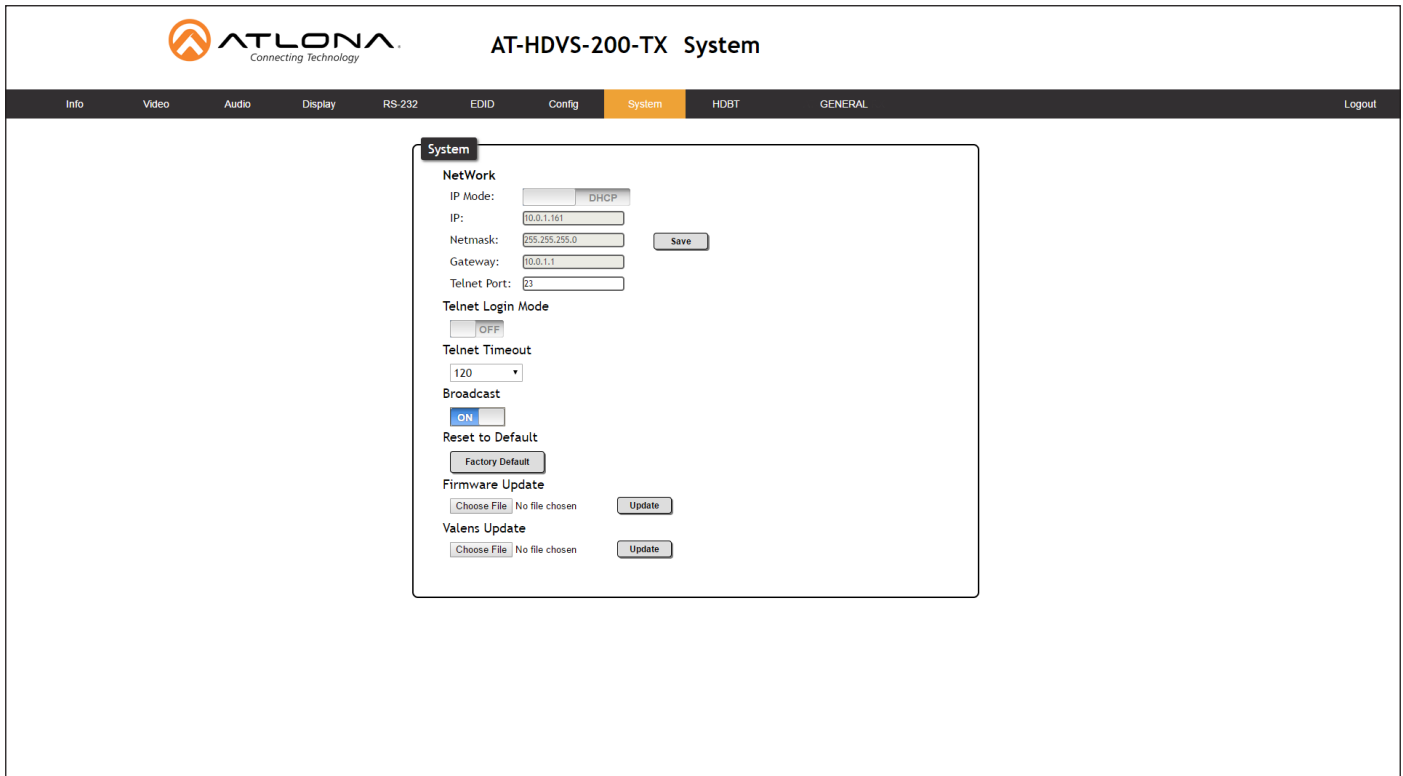
**Confirm New Password**
Verify the new password by retyping it in this field.

**All User Login Settings**

- **Username**
  Displays the username.

- **Password**
  Displays the password for the associated username.

- **Edit**
  Click the **Add** button, in this column, to edit the username and password in the row.

- **Del**
  Click the **Remove** button to delete the user in the row. This button will only be available if a username and password have been created.

## System page



**IP Mode**
Click this toggle to set the IP mode of the AT-HDVS-200-TX.  By default, the AT-HDVS-200-TX is set to DHCP mode.
Available settings:  STATIC IP, DHCP.

**IP**
Enter the IP address of the AT-HDVS-200-TX in this field.  This field will only be available if **IP Mode** is set to STATIC
IP.  The default IP address is 192.168.1.254.

**Netmask**
Enter the subnet mask in this field.  This field will only be available if **IP Mode** is set to STATIC IP.

**Gateway**
Enter the gateway (router) address in this field.  This field will only be available if **IP Mode** is set to STATIC IP.

**Telnet Port**
Enter the Telnet port in this field.

**Telnet Login Mode**
Click this toggle to set the login mode to ON or OFF.  If this feature is set to ON, then the AT-HDVS-200-TX will
prompt for both the username and password.  Use the same credentials as the web GUI.

**Telnet Timeout**
Click this drop-down list to select the timeout interval, in seconds, before the Telnet connection is automatically
closed after no activity.  Range: 1 to 3600 (seconds).

**Broadcast**
By default, broadcast mode is set to off.  When set to on, changes in the web GUI will also be affected on the control
system (if connected), via TCP/IP.  To separate control between web GUI and Telnet, set this feature off.

**Reset to Default**

Click the **Factory Default** button to set the AT-HDVS-200-TX to factory-default settings.
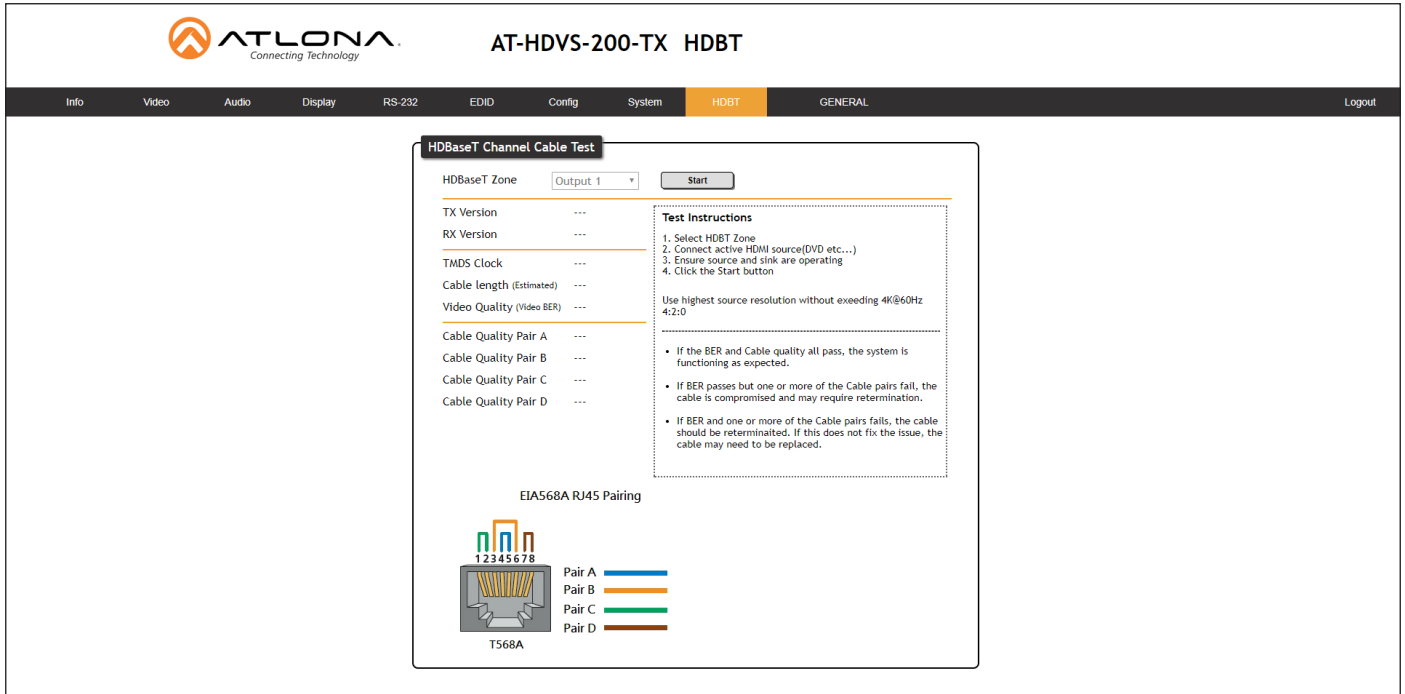
**Firmware Update**

Click the **Choose File** button to select the firmware file, when upgrading the firmware on the AT-HDVS-200-TX. Once the firmware file is selected, click the **Update** button. Refer to Updating the Firmware (page 65) for more information.

**Valens Update**

Click the **Choose File** button to select the Valens firmware file, when upgrading the Valens chip on the AT-HDVS-200-TX. Once the firmware file is selected, click the **Update** button.

# HDBT page



**HDBaseT Channel**
The AT-HDVS-200-TX has only a single HDBaseT output.  Therefore, this drop-down list is disabled.

**Start / Stop**
Click the **Start** button to being the HDBaseT testing.  During testing, the button text will change to "Stop".  Click the **Stop** button to halt the HDBaseT testing process.

**TX Version**
The version of the Valens chip on the transmitter.

**RX Version**
The version of the Valens chip on the receiver.

**TMDS Clock**
Displays the pixel clock speed.  If no source is connected, then this field will display as "None".

**Cable length (Estimated)**
This field indicates the approximate length of the Ethernet cable connected between the HDBaseT ports on the transmitter and the receiver.  If the cable length is less than 15 feet, then this value will be displayed as 0 (zero).

**Video Quality (Video BER)**
The Bit Error Rate (BER).  This field displays either PASS or FAIL during a test.
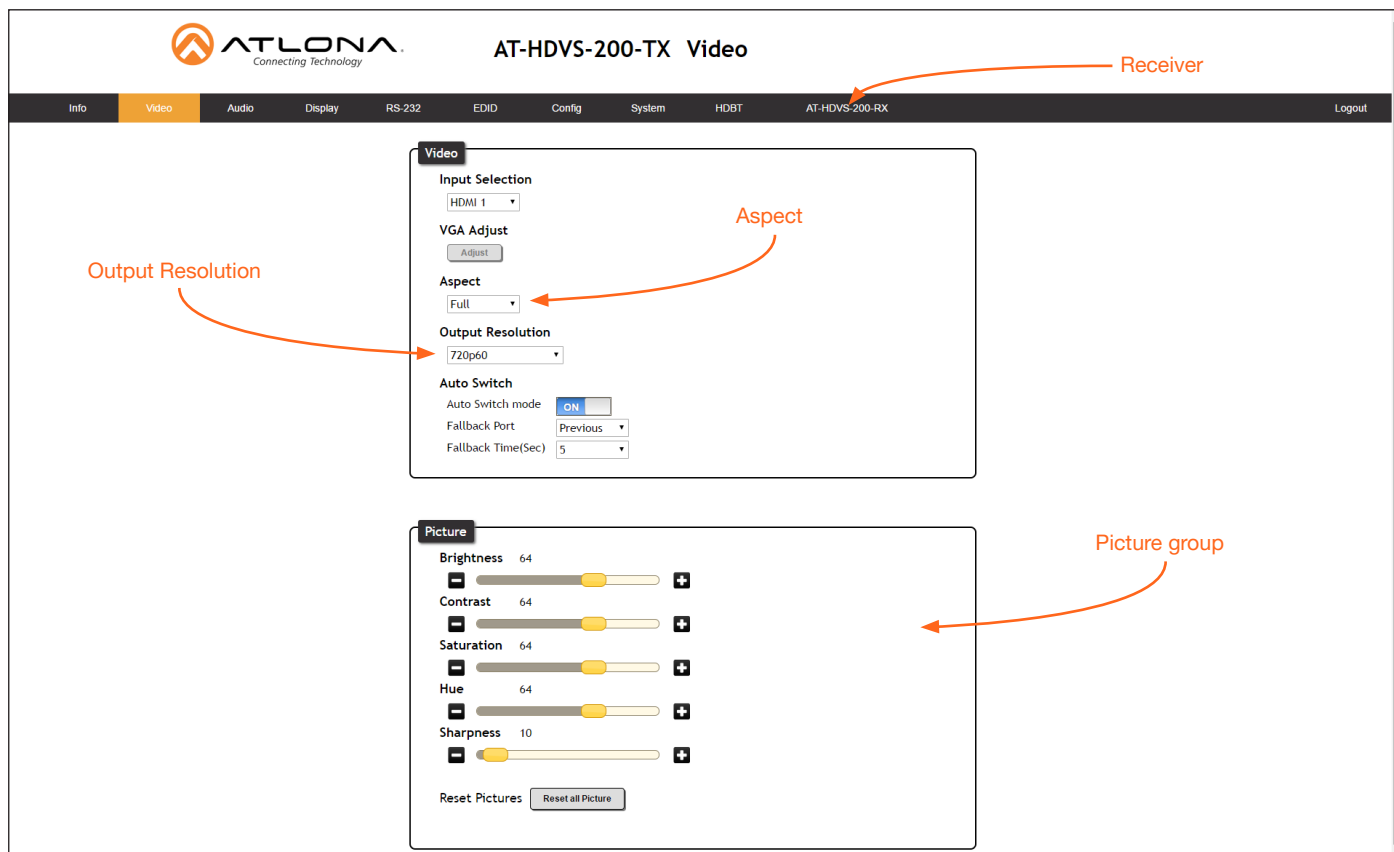
**Cable Quality Pair (A, B, C, D)**
Each of these fields will display either PASS or FAIL during a test.

## Kit Mode

If the AT-HDVS-200-TX is connected to the AT-HDVS-200-TX, the system will be placed in *kit mode*. This section covers features only available in *kit mode*. Note that the text "GENERAL" has been replaced with the name of receiver (AT-HDVS-200-TX).

### Video



**Aspect**
Click the **Aspect** drop-down list and select the desired aspect ratio.

| Aspect Ratio | Description |
|---|---|
| Full | The input signal is adjusted to fill the screen. |
| 16:9 | Set the aspect ratio to 16:9; common aspect ratio for HD and widescreen formats; also notated as 1:77.1 |
| 16:10 | Set the aspect ratio to 16:10; typical aspect ratio for computer and tablet displays. |
| 4:3 | Sets the aspect ratio to 4:3; if the input signal is 16:9 or 16:10, up to 30% of the vertical resolution is lost. |
| Keep Ratio | The output aspect ratio is the same as the input. |

**Output Resolution**
Click the **Output Resolution** drop-down list and select the desired resolution.  The default resolution is 720p.

| Output Resolutions | | | |
|---|---|---|---|
| 800x600@60 | 1024x768@60 | 1280x800@60 | 1280x1024@60 |
| 1366x768@60 | 1400x1050@60 | 1600x900@60RB | 1600x1200@60 |
| 1680x1050@60 | 1920x1200@60RB | 720p25 | 720p29.97 |
| 720p30 | 720p50 | 720p59.94 | 720p60 |
| 1080i50 | 1080i59.94 | 1080i60 | 1080p23.98 |
| 1080p24 | 1080p25 | 1080p29.97 | 1080p30 |
| 1080p50 | 1080p59.94 | 1080p60 | Input |
| Native | | | |

**Brightness**
Adjusts the brightness setting of the output signal.  Range: 0 - 128

**Contrast**
Adjusts the contrast setting of the output signal.  Contrast is the difference between the lightest and darkest area of an image.  Range: 0 - 128

**Saturation**
Adjusts the color saturation of the output signal.  Range: 0 - 128

**Hue**
Adjusts the hue of the output signal.  Range: 0 - 128

**Sharpness**
Adjusts the sharpness of the output signal.  Range: 0 - 128

**Reset all Picture**
Click this button to reset the above picture settings to their factory-default settings.

## Audio
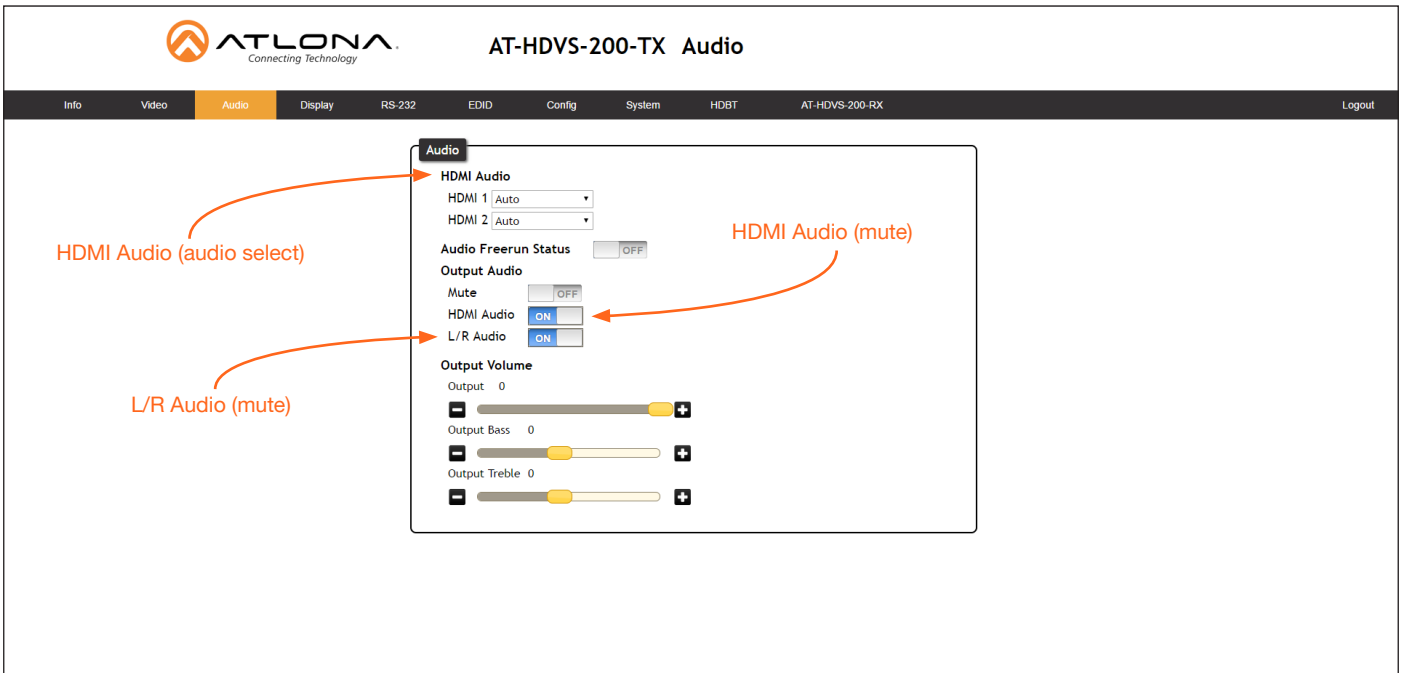


**HDMI Audio**
Click the drop-down list for HDMI 1 and HDMI 2 to select the input audio source used by each HDMI input.

| Setting | Description |
| --- | --- |
| Auto | Automatically detects the audio source. If an HDMI cable with embedded audio is connected, the system will use the digital audio on the HDMI cable. If a cable, which does not support audio (such as a DVI cable) is connected to the HDMI port, then the analog audio from the **AUDIO IN** port will be used. |
| Digital | The HDMI audio will be used as the source. |
| Analog | The analog source, connected to the **AUDIO IN** port, will be used. |

**HDMI Audio**
Click this toggle to the **OFF** position to mute only the HDMI audio.

**L/R Audio**
Click this toggle to the **OFF** position to mute all audio on the output.

## RS-232
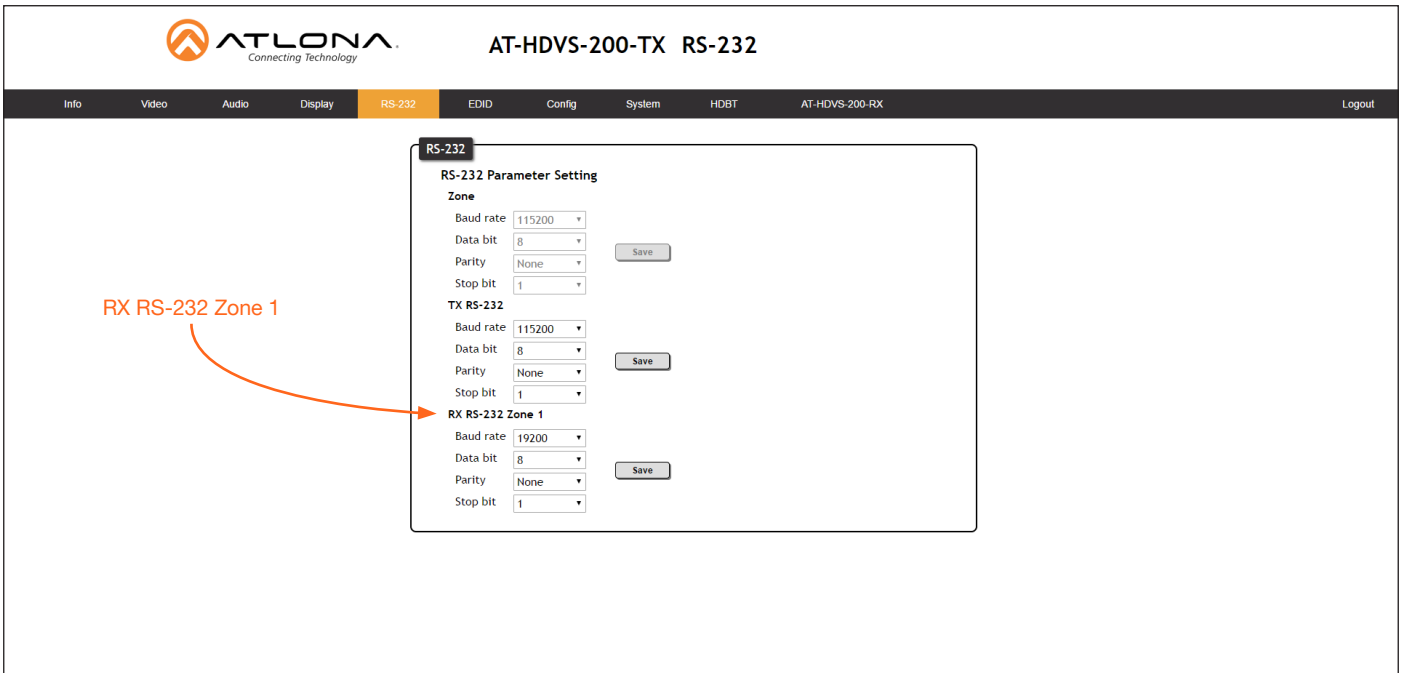


**RX RS-232 Zone 1**

Each of these drop-down lists refer to the setting for the **RS-232 1** port on the receiver.  Click the **Save** button to save the settings.

| Setting | Description |
|---------|-------------|
| Baud rate | Sets the baud rate.  The following options are available: 2400, 9600, 19200, 38400, 56000, 57600, 115200. |
| Data bit | Sets the number of data bits used to represent each character of data.  The following options are available:  7 or 8. |
| Parity | Sets the parity bit, which can be included with each character to detect errors during the transmission of data.  The following options are available:  None, Odd, or Even. |
| Stop bit | Sets the stop bit.  Stop bits are sent at the end of each character, allowing the client to detect the end of a character stream.  The following options are available:  1 or 2. |

**NOTE:**  In the illustration above, note that the **Zone** RS-232 settings are "locked" because the system is in *kit mode*.

# Commands

The following tables provide an alphabetical list of commands available on the AT-HDVS-200-TX. All commands are case-sensitive and must be entered as documented. If the command fails or is entered incorrectly, then the feedback is "Command FAILED".

> ⚠️ **IMPORTANT:** Each command is terminated with a carriage-return (0x0d) and the feedback is terminated with a carriage-return and line-feed (0x0a).

| Command | Description |
| --- | --- |
| AnaGain | Sets the gain of the analog audio input |
| APwrOffTime | Sets the power-off time interval |
| Aspect | Sets the aspect ratio of the output signal |
| ASwFstTime | Sets detect delay time when power on |
| ASwOutTime | Sets the time interval for auto-switching when no signal is detected |
| ASwPrePort | Sets which port to switch to when no signal is detected |
| AudioSrc | Set audio source for the HDMI inputs |
| AutoDispOff | Enables or disables display auto-off |
| AutoDispOn | Enables or disables display auto-on |
| AutoPwrMode | Set the display mode for auto power on and off |
| AutoSW | Enable or disables auto switching or display auto switching status |
| BASS | Increases or decreases the amount of bass on the output |
| Blink | Enables or disables blinking of the **DN** button on the front panel |
| Broadcast | Enables or disables broadcast mode |
| BRT | Sets the picture brightness |
| CliIPAddr | Sets the IP address of the Telnet client |
| CliMode | Sets the login mode of the Telnet client |
| CliPass | Sets the password for the Telnet client |
| CliPort | Sets the listening port for the Telnet client |
| CliUser | Sets the username for the Telnet client |
| CSpara | Sets the baud rate, data bits, parity bit, and stop bits for the serial port |
| CtlType | Sets the control type for communcation with the display device |
| CTRST | Sets the picture contrast |
| DispBtn | Simulates pressing the **DISPLAY** button on the front panel |
| DispCEC | Sets the display command type to CEC |
| DispIP | Sets the display command type to IP |

| Command | Description |
|---------|-------------|
| DispKeyLock | Locks or unlocks the DISPLAY button on the front panel |
| Display | Send the command to the display device using the current protocol |
| DispRS | Sets the display command type to RS-232 |
| FreeRun | Enables or disables "audio-only" from the transmitter to the receiver |
| HDCPSet | Sets the HDCP reporting mode for the **HDMI IN 1** port |
| HDMIAUD | Enables or disables audio on the HDMI output |
| HDVS | Displays the model number of the connected receiver |
| help | Displays the list of available commands |
| HUE | Sets the picture hue |
| Input | Sets the active input |
| IPAddUser | Adds a user for Telnet control |
| IPCFG | Displays the current network settings for the AT-HDVS-200-TX |
| IPDelUser | Deletes the specified Telnet user |
| IPDHCP | Enables or disables DHCP mode on the AT-HDVS-200-TX |
| IPLogin | Enables or disables login credentials when starting a Telnet session |
| IPPort | Sets the Telnet listening port for the AT-HDVS-200-TX |
| IPStatic | Sets the static IP address, subnet mask, and gateway for the AT-HDVS-200-TX |
| IPTimeout | Specifies the time interval of inactivity before the Telnet session is closed |
| LRAUD | Enables or disables audio on the L/R analog output |
| Mreset | Resets the AT-HDVS-200-TX to factory-default settings |
| PictureRst | Resets all picture settings |
| PrefTimg | Sets the preferred HDMI input timing |
| ProjSWMode | Sets the cool-down intervale of the projector |
| ProjWarmUpT | Sets the projector warm-up time interval |
| RS232para | Sets the baud rate, data bits, stop bits, and parity for the **RS-232** port |
| RS232zone | Send a command to the HDBT device |
| RxRSparaZ | Specifies the RS-232 settings for the RS-232 1 port on the receiver |
| SATRT | Sets the picture color saturation |
| SetCmd | Assigns an RS-232 or IP command to the specified button on the front panel |

| Command | Description |
|---|---|
| SetEnd | Sets the end-character delimiter for the specified command |
| SetFbVerify | Sets the feedback verification state |
| SetStrgType | Sets the type of command string |
| SHARP | Sets the picture sharpness |
| System | Displays system information about the AT-HDVS-200-TX |
| TREBLE | Increases or decreases the treble on the output |
| TrigCEC | Triggers the stored CEC command |
| TrigIP | Triggers the stored IP command |
| TrigRS | Triggers the stored RS-232 command |
| Type | Displays the model of the transmitter |
| Update | Updates the MCU or Valens firmware from the command line |
| Version | Displays the current firmware version of the AT-HDVS-200-TX |
| VGAAuto | Performs a VGA auto-adjust |
| VGAPrefT | Set the preferred timing for the VGA input |
| VidOutRes | Sets the video output resolution |
| VolKeyOPT | Defines the function method of the VOL button on the front panel |
| VOUT | Increases or decreases the audio volume |
| VOUTMute | Mutes or unmutes the audio |

## AnaGain

Sets the gain of the analog input.

| Syntax |
| --- |
| AnaGain X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Audio gain | 0 ... 16 |

**Example**
AnaGain 1

**Feedback**
AnaGain 1

## APwrOffTime

Set the time interval, in seconds, before the command to power-off the display is sent, once an A/V signal is no longer detected.  Use the sta argument to display the current APwrOffTime setting.

| Syntax |
| --- |
| APwrOffTime X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Time interval | 5 ... 3600, sta |

**Example**
APwrOffTime 120

**Feedback**
APwrOffTime 120

## Aspect

Sets the aspect ratio of the output signal.  The default setting is Full.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| Aspect X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Aspect ratio | 0 = Full<br>1 = 16:9<br>2 = 16:10<br>3 = 4:3<br>4 = Keep Ratio |

**Example**
Aspect 1

**Feedback**
Aspect 1

## ASwFstTime

Sets the time interval, in seconds, before the unit switches to the input used by a newly-powered or connected device.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| ASwFstTime X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Time interval | 10 ... 600, sta |

**Example**
ASwFstTime 10

**Feedback**
ASwFstTime 10

## ASwOutTime

Sets the time interval, in seconds, before the unit automatically switches to another active input if no signal is received from the current input.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| ASwOutTime X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Time interval | 3 ... 600, sta |

**Example**
ASwOutTime 10

**Feedback**
ASwOutTime 10

## ASwPrePort

Sets the default input to be used for auto-switching, once no A/V signal is detected from the currently active port. Use the sta argument to display the current setting.

| Syntax |
| --- |
| ASwPrePort X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Port | 1 = HDMI IN 1<br>2 = HDMI IN 2<br>3 = VGA IN<br>Prev = Previous |

**Example**
ASwPrePort 1

**Feedback**
ASwPrePort 1

## AudioSrc

Sets the audio source for the each HDMI input.  Parameter X specifies the HDMI port.  Parameter Y specifies the type of audio that will be used.  Do not include a space between the AudioSrc command and the first argument.  Use the sta argument, for parameter Y, to display the current setting of the specified port.

| Syntax |
| --- |
| AudioSrcX Y |

| Parameter | Description | Range |
| --- | --- | --- |
| X | HDMI IN port | 1 ... 2 |
| Y | Audio type | auto = Automatically selects the audio type<br>dig = Digital audio only<br>ana = Analog audio from the **AUDIO IN** port is embedded on the output. |

**Example**
AudioSrc1 ana

**Feedback**
AudioSrc1 ana

## AutoDispOff

Sends the command to power-off the display when an A/V signal is no longer present.  Use the on argument to enable this feature.  Use the sta argument to return the current setting.

| Syntax |
| --- |
| AutoDispOff X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
AutoDispOff on

**Feedback**
AutoDispOff on

## AutoDispOn

Sends the command to power-on the display when an A/V signal is detected.  Use the on argument to enable this feature.  Use the sta argument to return the current setting.

| Syntax |
| --- |
| AutoDispOn X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
AutoDispOn on

**Feedback**
AutoDispOn on

## AutoPwrMode

Sets the display mode for auto-power on and off.

| Syntax |
| --- |
| AutoPwrMode X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | DISPAVON, DISPAVSW, AVSW, sta |

**Example**
AutoPwrMode DISPAVON

**Feedback**
AutoPwrMode DISPAVON

## AutoSW

Enables or disables auto switching or display auto switching status.

| Syntax |
| --- |
| AutoSW X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
AutoSW on

**Feedback**
AutoSW on

## BASS

Increases or decreases the amount of bass on the output.  In addition to specifying an integer value, the + and - arguments can be used, by themselves, to increase or decrease the bass by 1 value, respectively.

| Syntax |
| --- |
| BASS X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | -12 ... 15, sta |

**Example**
BASS -5
BASS +

**Feedback**
BASS -5
BASS -4

## Blink

Enables or disables blinking of the **DN** button on the front panel.  When set to on, the **DN** button will flash red and can be used to physically identify the unit on a network.  The **DN** button will flash until the Blink off command is executed.  on = enables **DN** button blinking; off = disables **DN** button blinking; sta = displays the current setting.  The default setting is off.

| Syntax |
| --- |
| Blink X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
Blink on

**Feedback**
Blink on

## Broadcast

Enables or disables broadcast mode.  By default, broadcast mode is set to off.  When set to on, changes in the web GUI will also be affected on the control system (if connected), via TCP/IP.  To separate control between web GUI and Telnet, set this feature off.  on = enables broadcast mode; off = disables broadcast mode; sta = displays the current setting.

| Syntax |
| --- |
| Broadcast X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
Broadcast on

**Feedback**
Broadcast on

## BRT

Sets the picture brightness.  Use the sta argument to display the current brightness setting.

| Syntax |
| --- |
| BRT X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | 0 ... 100, sta |

**Example**
BRT 60

**Feedback**
BRT 60

## CliIPAddr

Sets the IP address of the controlled device.  The IP address must be specified in dot-decimal notation.  Use the sta argument to display the IP address of the device.  DHCP must be disabled before using this command.  Refer to the IPDHCP command for more information.

| Syntax |
| --- |
| CliIPAddr X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | IP address | 0 ... 255 (per byte) |

**Example**
CliIPAddr 192.168.1.61

**Feedback**
CliIPAddr 192.168.1.61

## CliMode

Sets the login mode of the controlled device.  login = requires login credentials, non-login = no login credentials required, sta = displays the current setting.

| Syntax |
| --- |
| CliMode X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | login, non-login, sta |

**Example**
CliMode login

**Feedback**
CliMode login

## CliPass

Sets the password for the controlled device.  Execute the CliPass command without arguments to display the current password.  The default password is Atlona.

| Syntax |
| --- |
| CliPass X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Password | 20 characters (max) |

**Example**
CliPass R3ind33r

**Feedback**
CliPass R3ind33r

## CliPort

Sets the listening port for the controlled device.  Use the sta argument to display the current listening port.
The default port is 23.

| Syntax |
| --- |
| CliPort X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Port | 0 ... 65535, sta |

**Example**
CliPort 30

**Feedback**
CliPort 30

## CliUser

Sets the username for the controlled device.  Execute the CliUser command without arguments to display the current username.

| Syntax |
| --- |
| CliUser X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Username | 20 characters (max) |

**Example**
CliUser BigBoss

**Feedback**
CliUser BigBoss

## CSpara

Sets the baud rate, data bits, parity bit, and stop bits for the serial device.  Use the sta argument to display the current serial port settings.  Each argument must be separated by a comma; no spaces are permitted.  Brackets must be used when executing this command.

| Syntax |
| --- |
| CSpara[W,X,Y,Z] |

| Parameter | Description | Range |
| --- | --- | --- |
| W | Baud rate | 2400, 4800, 9600, 19200, 38400, 57600, 115200 |
| X | Data bits | 7, 8 |
| Y | Parity bit | None, Odd, Even |
| Z | Stop bits | 1, 2 |

**Example**
CSpara[115200,8,0,1]
CSpara[sta]

**Feedback**
CSpara[115200,8,0,1]
CSpara [115200,8,0,1]

## CtlType

Sets the control type for communication with the display device.

| Syntax |
| --- |
| CtlType X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | rs-232, ip, cec, sta |

**Example**
CtlType cec

**Feedback**
CtlType cec

## CTRST

Sets the picture contrast.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| CTRST X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Contrast | 0 ... 100, sta |

**Example**
CTRST 65

**Feedback**
CTRST 65

## DispBtn

Simulates pressing the **DISPLAY** button on the front panel, activating the display mode and RS-232/CEC/IP display control commands.  on = simulates pressing the DISPLAY button to the "on" state, off = simulates pressing the DISPLAY button to the "off" state, tog = reverses the current state of the DISPLAY button, sta = displays the current setting.

| Syntax |
|---|
| DispBtn X |

| Parameter | Description | Range |
|---|---|---|
| X | Setting | on, off, tog, sta |

**Example**
DispBtn on

**Feedback**
DispBtn on

## DispCEC

Enables or disables the display command protocol to CEC.  on = enable CEC, off = disable CEC, sta = displays the current setting.

| Syntax |
|---|
| DispCEC X |

| Parameter | Description | Range |
|---|---|---|
| X | Setting | on, off, sta |

**Example**
DispCEC on

**Feedback**
DispCEC on

## DispIP

Enables or disables the display command protocol to IP.  on = enable IP, off = disable IP, sta = displays the current setting.

| Syntax |
|---|
| DispIP X |

| Parameter | Description | Range |
|---|---|---|
| X | Setting | on, off, sta |

**Example**
DispIP on

**Feedback**
DispIP on

## DispKeyLock

Locks the **DISPLAY** button on the front panel, preventing it from being accidentally activated.  on = locks the DISPLAY button, off = unlocks the DISPLAY button, sta = displays the current setting.

| Syntax |
| --- |
| DispKeyLock X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Setting | on, off, sta |

**Example**
DispKeyLock on

**Feedback**
DispKeyLock on

## Display

Sends the "on" or "off" command to the display using the current protocol.  Use the sta argument to display the current setting.  Refer to the DispCEC, DispIP, and DispRS command to set the protocol.

| Syntax |
| --- |
| Display X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Setting | on, off, sta |

**Example**
Display on

**Feedback**
Display on

## DispRS

Enables or disables the display command protocol to RS-2232.  on = enable RS-232, off = disable RS-232, sta = displays the current setting.

| Syntax |
| --- |
| DispRS X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Setting | on, off, sta |

**Example**
DispRS on

**Feedback**
DispRS on

## FreeRun

Enables or disables only audio to be sent from the transmitter to the receiver.  on = enable, off = disable, sta = displays the current setting.

| Syntax |
|---|
| FreeRun X |

| Parameter | Description | Range |
|---|---|---|
| X | Setting | on, off, sta |

**Example**
FreeRun on

**Feedback**
FreeRun on

> **IMPORTANT**: Setting the **Audio Freerun Status** to ON is not recommended.   When set to ON, both video auto switching and display control are disabled.

## HDCPSet

Set the HDCP reporting mode of the specified **HDMI IN** port.  Some computers will send HDCP content if an HDCP-compliant display is detected.  Setting this value to off, will force the computer to ignore detection of HDCP-compliant displays.  Disabling this feature will *not* decrypt HDCP content.  on = enables HDCP detection; off = disables HDCP detection; sta = displays the current setting.

| Syntax |
|---|
| HDCPSet X Y |

| Parameter | Description | Range |
|---|---|---|
| X | Value | 1 ... 2 |
| Y | Value | on, off, sta |

**Example**
HDCPSet 1 on

**Feedback**
HDCPSet 1 on

## HDMIAUD

Enables or disables audio on the HDMI output.  on = enables HDMI audio output; off = disables HDMI audio output; sta = displays the current HDMIAUD setting.

| Syntax |
| --- |
| HDMIAUD |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
HDMIAUD off

**Feedback**
HDMIAUD off

## HDVS

Displays the model number of the connected receiver.  The sta argument must be provided.  If no receiver is connected, this command will return Null.

| Syntax |
| --- |
| HDVS X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | sta |

**Example**
HDVS sta

**Feedback**
AT-HDVS-200-RX

## help

Displays the list of available commands.  To obtain help on a specific command, enter the **help** command followed by the name of the command.

| Syntax |
| --- |
| help X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Command name (optional) | Command |

**Example**
help

**Feedback**
Command List:
-----------------
help
Input
Version
...
...

## HUE

Sets the picture hue.  Use the sta argument to display the current HUE value.

| Syntax |
| --- |
| HUE X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | 0 ... 100, sta |

**Example**
HUE 40

**Feedback**
HUE 40

## Input

Sets the active input.  When specifying an HDMI input, the number of the input must also be specified.  Do not add a space between the HDMI argument and the input number. Use the sta argument to display the current setting.

| Syntax |
| --- |
| Input X Y |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Input | HDMI, VGA, sta |
| Y | HDMI port identifier | 1 ... 2 |

**Example**
Input HDMI2

**Feedback**
Input HDMI2

## IPAddUser

Adds a user for Telnet control.  This command performs the same function as adding a user within the **Config** page of the web GUI.  Refer to Config page (page 27) of the web GUI for more information.

| Syntax |
| --- |
| IPAddUser X Y |

| Parameter | Description | Range |
| --- | --- | --- |
| X | User name | 20 characters (max) |
| Y | Password | 20 characters (max) |

**Example**
IPAddUser BigBoss b055man

**Feedback**
IPAddUser BigBoss b055man
TCP/IP user was added

## IPCFG

Displays the current network settings for the AT-HDVS-200-TX.

| Syntax |
| --- |
| IPCFG |

**This command does not require any parameters**

**Example**
IPCFG

**Feedback**
IP Addr: 10.0.1.101
Netmask: 255.255.255.0
Gateway: 10.0.1.1
IP Port: 23

## IPDelUser

Deletes the specified TCP/IP user.  This command performs the same function as removing a user within the **Config** page of the web GUI.  Refer to the Config page (page 27) for more information.

| Syntax |
| --- |
| IPDelUser X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | User | User name |

**Example**
IPDelUser BigBoss

**Feedback**
IPDelUser BigBoss
TCP/IP user was deleted

## IPDHCP

Enables or disables DHCP mode on the AT-HDVS-200-TX.  on = enables DHCP mode; off = disables DHCP mode; sta = displays the current setting.  If this feature is disabled, then a static IP address must be specified for the AT-HDVS-200-TX.  Refer to the IPStatic command for more information.

| Syntax |
| --- |
| IPDHCP X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
IPDHCP on

**Feedback**
IPDHCP on

## IPLogin

Enables or disables the use of login credentials when starting a Telnet session on the AT-HDVS-200-TX. If this feature is set to on, then the AT-HDVS-200-TX will prompt for both the username and password. Use the same credentials as the web GUI. on = login credentials required; off = no login required; sta = displays the current setting.

| Syntax |
| --- |
| IPLogin X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
IPLogin off

**Feedback**
IPLogin off

## IPPort

Sets the Telnet listening port for the AT-HDVS-200-TX. Use the sta argument to display the current port setting.

| Syntax |
| --- |
| IPPort X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Port | 0 ... 65535, sta |

**Example**
IPPort 23

**Feedback**
IPPort 23

## IPStatic

Sets the static IP address, subnet mask, and gateway (router) address of the AT-HDVS-200-TX. Before using this command, DHCP must be disabled on the AT-HDVS-200-TX. Refer to the IPDHCP command for more information. Each argument must be entered in dot-decimal notation and separated by a space. The default static IP address is 192.168.1.254.

| Syntax |
| --- |
| IPStatic X Y Z |

| Parameter | Description | Range |
| --- | --- | --- |
| X | IP address | 0 ... 255 (per byte) |
| Y | Subnet mask | 0 ... 255 (per byte) |
| Z | Gateway (router) | 0 ... 255 (per byte) |

**Example**
IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

**Feedback**
IPStatic 192.168.1.112 255.255.255.0 192.168.1.1

## IPTimeout

Specifies the time interval of inactivity before the Telnet session is automatically closed.

| Syntax |
| --- |
| IPTimeout X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Interval (in seconds) | 1 ... 60000 |

**Example**
IPTimeout 300

**Feedback**
IPTimeout 300

## LRAUD

Enables or disables the L/R audio output.  on = enables L/R audio out, off = disables L/R audio out, sta = displays the current setting.

| Syntax |
| --- |
| LRAUD X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
LRAUD off

**Feedback**
LRAUD off

## Mreset

Resets the AT-HDVS-200-TX to factory-default settings.

| Syntax |
| --- |
| MReset |

**This command does not require any parameters**

**Example**
Mreset

**Feedback**
Mreset

## PictureRst

Resets the picture settings to factory-default settings. This command does not reset the unit to factory-default settings. Refer to the Mreset command for more information.

| Syntax |
| --- |
| PictureRst |

**This command does not require any parameters**

**Example**
PictureRst

**Feedback**
PictureRst

## PrefTimg

Sets the preferred input timing. Specify a value from 0 to 8.

| Syntax |
| --- |
| PrefTimg X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Timing | 0 ... 8 |

**Input Timing List**
0 = Native
1 = 1280x800
2 = 1920x1080
3 = 1024x768

4 = 1280x1024
5 = 1920x1200
6 = 1366x768
7 = 1600x900
8 = Native

**Example**
PrefTimg 3

**Feedback**
PrefTimg 3

## ProjSWMode

Sets the time interval before the "display on" command is sent. This value should be the same as the projector's delay setting. Use the sta argument to display the current setting.

| Syntax |
| --- |
| ProjSWMode X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Time interval | 0 ... 300, sta |

**Example**
ProjSWMode 120

**Feedback**
ProjSWMode 120

## ProjWarmUpT

Sets the display warm-up interval, in seconds.  During this time, the display will not accept any commands until the "power on" command has been processed.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| ProjSWMode X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Time interval | 0 ... 300, sta |

**Example**
ProjWarmUpT 120

**Feedback**
ProjSWMode 120

## RS232para

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232** port on the AT-HDVS-200-TX.  Each argument must be separated by a comma; no spaces are permitted.  Brackets must be used when typing this command.  Use the sta argument, *without brackets and including a space*, to display the current settings.

| Syntax |
| --- |
| RS232para[W,X,Y,Z] |

| Parameter | Description | Range |
| --- | --- | --- |
| W | Baud rate | 2400, 9600, 19200, 38400, 56000, 57600, 115200 |
| X | Data bits | 7, 8 |
| Y | Parity bit | None, Odd, Even |
| Z | Stop bits | 1, 2 |

**Example**
RS232para[115200,8,0,1]
RS232para sta

**Feedback**
RS232para[115200,8,0,1]
RS232para[115200,8,0,1]

## RS232zone

Sends commands to the connected display.  Refer to the User Manual of the display device for a list of available commands.  Brackets must be used when specifing the command argument.  The command line must not contain any spaces.

| Syntax |
| --- |
| RS232zone[X] |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Command | String |

**Example**
RS232zone[command]

**Feedback**
RS232zone[command]

## RxRSparaZ

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232 1** port on the AT-HDVS-200-RX.  Parameter V must be set to 1.  Each argument must be separated by a comma; no spaces are permitted.  Brackets must be used when specifing the arguments.  Use the sta argument, *without brackets and including a space*, to display the current settings.

| Syntax |
| --- |
| RxRSparaZV[W,X,Y,Z] |

| Parameter | Description | Range |
| --- | --- | --- |
| V | Port | 1 |
| W | Baud rate | 2400, 9600, 19200, 38400, 56000, 57600, 115200 |
| X | Data bits | 7, 8 |
| Y | Parity bit | None, Odd, Even |
| Z | Stop bits | 1, 2 |

**Example**
RxRSparaZ1[115200,8,0,1]
RxRSparaZ1 sta

**Feedback**
RxRSparaZ1[115200,8,0,1]
RxRSparaZ1[115200,8,0,1]

## SATRT

Sets the picture color saturation value.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| SATRT X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Saturation | 0 ... 100, sta |

**Example**
SATRT 50

**Feedback**
SATRT 50

## SetCmd

Assigns an RS-232 or IP command to the specified button on the front panel.

| Syntax |
| --- |
| SetCmd X[Y] |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Button | on, off, vol+, vol-, mute |
| Y | Command | Command string |

**Example**
SetCmd mute[Select]

**Feedback**
SetCmd mute[Select]

## SetEnd

Sets the end-character of the specified command.  Refer to the RS-232 / IP Commands (page 24) section for more information.

| Syntax |
| --- |
| SetEnd X[Y] |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Command | on, off, vol+, vol-, mute, fbkon, fbkoff, fbkmute |
| Y | EOL character | None, CR, LF, CR-LF, Space, STX, ETX, null |

**Example**
SetEnd off[CR-LF]

**Feedback**
SetEnd off[CR-LF]

## SetFbVerify

Sets the feedback verification state.  on = the AT-HDVS-200-TX will make four attempts to send the command.  If the feedback string is not acknowledged after the fourth attempt, the process will fail.  off = sends the command and ignores the feedback string.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| SetFbVerify X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
SetFbVerify on

**Feedback**
SetFbVerify on

## SetStrgType

Sets the type of command string.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| SetStrgType X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | ascii, hex, sta |

**Example**
SetStrgType ascii

**Feedback**
SetStrgType ascii

## SHARP

Sets the picture sharpness.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| SHARP X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Sharpness | 0 ... 100, sta |

**Example**
SHARP 70

**Feedback**
SHARP 70

## System

Displays system information about the AT-HDVS-200-TX.  The sta argument must be specified.

| Syntax |
| --- |
| System X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Status | sta |

**Example**
System sta

**Feedback**
Model: AT-HDVS-200-TX
MAC Addr: b8-98-b0-00-10-e6
Address Type: DHCP
IP Addr: 10.0.1.161
Netmask: 255.255.255.0
Gateway: 10.0.1.1
HTTP Port: 80
Telnet Port: 23
Firmware: 1.1.28
On/Up Time <dd HH:mm:ss>: 00 00:53:31

## TREBLE

Increases or decreases the amount of treble.  In addition to specifying an integer value, the **+** and **-** arguments can be used, by themselves, to increase or decrease the amount of treble by 1 value, respectively.  To display the current value, use the sta argument.

| Syntax |
| --- |
| TREBLE X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | -12 ... 15, sta |

**Example**
Treble 7
Treble -

**Feedback**
Treble 7
Treble 6

## TrigCEC

Trigger the specified command to the display using CEC.

| Syntax |
| --- |
| TrigCEC X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, vol+, vol-, mute |

**Example**
TrigCEC on

**Feedback**
TrigCEC on

## TrigIP

Trigger the specified command to the display using IP.

| Syntax |
| --- |
| TrigIP X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, vol+, vol-, mute |

**Example**
TrigIP vol+

**Feedback**
TrigIP vol+

## TrigRS

Trigger the specified command to the display using RS-232.

| Syntax |
| --- |
| TrigRS X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, vol+, vol-, mute |

**Example**
TrigRS vol-

**Feedback**
TrigRS vol-

## Type

Displays the model information of the AT-HDVS-200-TX.

| Syntax |
|--------|
| Type |

**This command does not require any parameters**

**Example**
Type

**Feedback**
AT-HDVS-200-TX

## Update

Places the AT-HDVS-200-TX in firmware update mode.  MCU = will update the MCU firmware, VSTX = update the Valens firmware.

When placing the unit in update mode, it is recommended that the Using USB (page 66) procedure, outlined under Updating the Firmware (page 65), be used.  Executing this command can be used if the INPUT button is not functioning or

| Syntax |
|--------|
| Update X |

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Value | MCU, VSTX |

**Example**
Update MCU

**Feedback**
none

## Version

Displays the current firmware version of the AT-HDVS-200-TX.  Do not add a space between the X parameter and the command.

| Syntax |
|--------|
| VersionX |

| Parameter | Description | Range |
|-----------|-------------|-------|
| X | Value | MCU, VSTX |

**Example**
VersionMCU

**Feedback**
V1.1.28

## VGAAuto

Executes the VGA auto-adjust.  This command automatically adjusts the phase and clock of the VGA signal.

| Syntax |
| --- |
| VGAAuto |

**This command does not require any parameters**

**Example**
VGAAuto

**Feedback**
VGAAuto

## VGAPrefT

Sets the preferred VGA input timing.  Specify a value from 0 to 8.

| Syntax |
| --- |
| PrefTimg X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Timing | 0 ... 8 |

**Input Timing List**
0 = Default
1 = 1280x800
2 = 1920x1080
3 = 1024x768

4 = 1280x720
5 = 1920x1200
6 = 1366x768
7 = 800x600
8 = 1600x900

**Example**
PrefTimg 3

**Feedback**
PrefTimg 3

## VidOutRes

Sets the video output resolution.  Use the sta argument to display the current video output resolution.

| Syntax |
| --- |
| VidOutRes |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | 0 ... 28, sta |

**Output Resolution List**
0 = 800x600@60
1 = 1024x768@60
2 = 1280x800@60
3 = 1280x1024@60
4 = 1366x768@60
5 = 1400x1050
6 = 1600x900@60RB
7 = 1600x1200@60
8 = 1680x1050@60
9 = 1920x1200@60RB
10 = 720p25
11 = 720p29.97
12 = 720p30
13 = 720p50

14 = 720p59.94
15 = 720p60
16 = 1080i50
17 = 1080i59.94
18 = 1080i60
19 = 1080p23.98
20 = 1080p24
21 = 1080p25
22 = 1080p29.97
23 = 1080p30
24 = 1080p50
25 = 1080p59.94
26 = 1080p60
27 = Input
28 = Native

**Example**
VidOutRes 26

**Feedback**
VidOutRes 26

## VolKeyOPT

Defines how the VOL button will be used to control a device.  0 = controls the volume using the HDVS, 1 = control using RS-232, 2 = control using IP.  Use the sta argument to display the current setting.

| Syntax |
| --- |
| VolKeyOPT |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | 0 ... 2, sta |

**Example**
VolKeyOPT

**Feedback**
VolKeyOPT

## VOUT

Increases or decreases the audio output volume.  In addition to specifying an integer value, the **+** and **-** arguments can be used, by themselves, to increase or decrease the volume by 1 value, respectively.  To display the current value, execute the **VOUT** command without any arguments.

| Syntax |
| --- |
| VOUT |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | -80 ... 0 |

**Example**
VOUT 4
VOUT +

**Feedback**
VOUT 4
VOUT 5

## VOUTMute

Mutes or unmutes the audio.  on = enables muting; off = disables muting; sta = displays the current setting.

| Syntax |
| --- |
| VOUTMute X |

| Parameter | Description | Range |
| --- | --- | --- |
| X | Value | on, off, sta |

**Example**
VOUTMute on

**Feedback**
VOUTMute on

# Appendix

## Updating the Firmware

Updating the firmware can be completed using either the USB interface or the web GUI. Atlona recommends using the web GUI for updating the firmware. However, if a network connection is not available, the AT-HDVS-200-TX firmware can be updated using a USB-A to USB mini-B cable

### Using the Web GUI

Requirements

- AT-HDVS-200-TX
- Firmware file
- Computer

1. Connect an Ethernet cable from the computer, containing the firmware, to the same network where the AT-HDVS-200-TX is connected.

2. Go to the System page (page 28) in the web GUI.



3. Click the **Choose File** button, under the **Firmware Update** section.

⚠️ **IMPORTANT:** When updating the firmware, make sure to select the **Choose File** button under **Firmware Update**. The **Valens Update** section does not apply to this procedure.

4. Browse to the location of the firmware file, select it, and click the **Open** button.

5. Click the **Update** button, under the **Firmware Update** section.

3. Press and hold the **INPUT** button, on the front panel, while connecting power to the AT-HDVS-200-TX.

4. The USB UPDATE folder will be displayed.

   If this folder is not displayed, automatically, select the USB UPDATE drive from Windows Explorer.
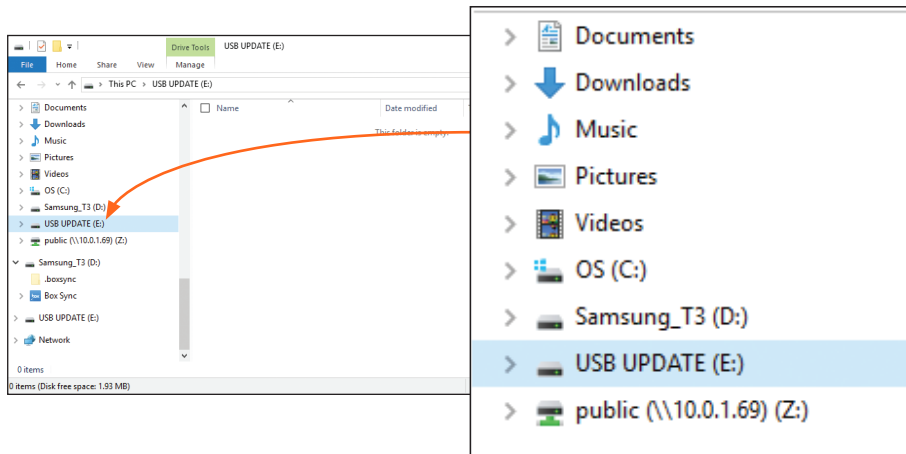


7. Delete all files from the USB UPDATE drive, if any are present.

8. Drag-and-drop the firmware file to the drive.

9. After the file has been copied, disconnect the USB cable from both the computer and the AT-HDVS-200-TX.

10. Power-cycle the AT-HDVS-200-TX by disconnecting then reconnecting the power supply.

11. The firmware update process is complete.

## Default Settings

The following tables list the factory-default settings for the AT-HDVS-200-TX.

| Feature | Settings | |
|---------|----------|---|
| Video | Input Selection | HDMI 1 |
| | Aspect | Full |
| | Auto Switch mode | OFF |
| | Fallback Port | Previous |
| | Fallback Time (Sec) | 5 |
| Audio | HDMI 1 | Auto |
| | HDMI 2 | Auto |
| | Audio Freerun Status | OFF |
| | Mute | OFF |
| | Output Volume | 0 |
| | Output Bass | 0 |
| | Output Treble | 0 |
| Display | Display Auto Power On | DISABLED |
| | Display Auto Power Off | DISABLED |
| | Power Button Lock | DISABLED |
| | Lamp cool down timer (sec) | 5 |
| | Auto power off timer (sec) | 15 |
| | Power on delay time (sec) | 5 |
| | Control Type | RS-232 |
| | Feedback Verify | ON |
| | Display Mode | DispSW AVon |
| | Volume / Mute | AudOut |
| RS-232 | Zone | 115200, 8, N, 1 |
| | TX RS-232 | 115200, 8, N, 1 |
| EDID | Prefer Timing (HDMI) | 1920x1080 |
| | Prefer Timing (VGA) | 1920x1080 |
| | Input1 HDCP | Compliant |
| | Input2 HDCP | Compliant |
| Config | Username (default) | root |
| | Password (default) | Atlona |
| System | IP Mode | DHCP |
| | Static IP Address (default) | 192.168.1.254 |
| | Netmask | 255.255.255.0 |
| | Gateway | 192.168.1.1 |
| | Telnet Port | 23 |
| | Telnet Login Mode | Off |
| | Telnet Timeout | 120 (seconds) |
| | Broadcast | On |

# Specifications

| Video | |
|---|---|
| HD/SD | 4096×2160@24/25/30/50*/60Hz*, 3840×2160@24/25/30/50*/60Hz*, 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 | 2560×2048, 2560×1600, 2048×1536, 1920×1200, 1680×1050, 1600×1200, 1600×900, 1440×900, 1400×1050, 1366×768, 1360×768, 1280×1024, 1280×800 1280×768, 1152×768, 1024×768, 800×600, 640×480 |
| 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, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™ |
| 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 IN / OUT | 15 | 5 | 30 | 10 |
| CAT-5e / CAT-6 | 230 | 70 | 330 | 100 |
| CAT-6a / CAT-7 | 230 | 70 | 330 | 100 |

| 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 | |
|---|---|
| Consumption | 12 W; 30 W (when paired) |

| Dimensions | Inches | Millimeters |
|---|---|---|
| H x W x D | 1.5 x 5 x 4.02 | 38 x 127 x 102 |

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

| Certification | |
|---|---|
| Unit | CE, FCC |

# Index

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