Two-Input
Wallplate Switcher for HDMI and VGA
with Ethernet-Enabled HDBaseT Output





AT-HDVS-200-TX-WP
AT-HDVS-200-TX-WP-BLK

Atlona Manuals
Switchers

Version Information

Version	Release Date	Notes
1	01/16	Initial release
2	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

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Operating Notes

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

- Consumer Electronics Control (CEC): Atlona has confirmed proper CEC functionality with several current models of Samsung, Panasonic, and Sony displays. However, it is not guaranteed that CEC will work with all displays. Many manufacturers do not support the CEC “off” command, and older displays use proprietary commands. Atlona only supports displays that use the CEC command structure defined in HDMI 1.2a. It is recommended that dealers request an evaluation product from Atlona, before designing a system using the CEC protocol. If this is not possible, then other control methods will need to be considered, in order to control displays using Atlona products.

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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.

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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.

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- 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 and Discontinued Products

- 3 years from proof of purchase date for all Refurbished (B-Stock) and Discontinued 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 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 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.

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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.

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Introduction

The Atlona **AT-HDVS-200-TX-WP** is a 2×1 switcher and HDBaseT transmitter with an HDMI input plus a VGA input with audio. The HDVS-200-TX-WP features a US two-gang, Decora-style wallplate form factor. 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 either video input and embedded for HDBaseT transmission. The HDVS-200-TX-WP is designed for use with the AT-HDVS-200-RX 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-WP-BLK** is identical to the AT-HDVS-200-TX-WP, except for the addition of interchangeable black and white wallplates and faceplates.

Both products provides control to a display through TCP/IP, RS-232, or CEC, without the need for a separate control system. This simplifies system design and integration while reducing costs. With automatic display control, the HDVS-200-TX-WP-BLK can trigger a display to power on automatically whenever a laptop or other device is connected. At the end of the presentation, when the presenter disconnects the laptop, the HDVS-200-TX-WP-BLK forces the display to power off. Ease of presenter interaction with the system, and the savings incurred by automatic display shutdown provide a significant return on investment. The HDVS-200-TX-WP-BLK display control capability can also be triggered by an external control system.

A power button on the front panel can be used for manual on/off control of either the HDVS-200-TX-WP-BLK or the display. Front panel volume controls are also available to control the display's internal audio, or another device with volume control, such as a DSP or another switcher.

Features

- US two-gang enclosure for Decora®-style wallplate openings
- 2×1 HDBaseT™ switcher with HDMI® and VGA inputs
- Ideal for the AT-HDVS-200-RX scaling receiver and Atlona HDBaseT-equipped switchers
- HDBaseT transmitter for AV, 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)
- Remotely powered via PoE (Power over Ethernet)
- 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

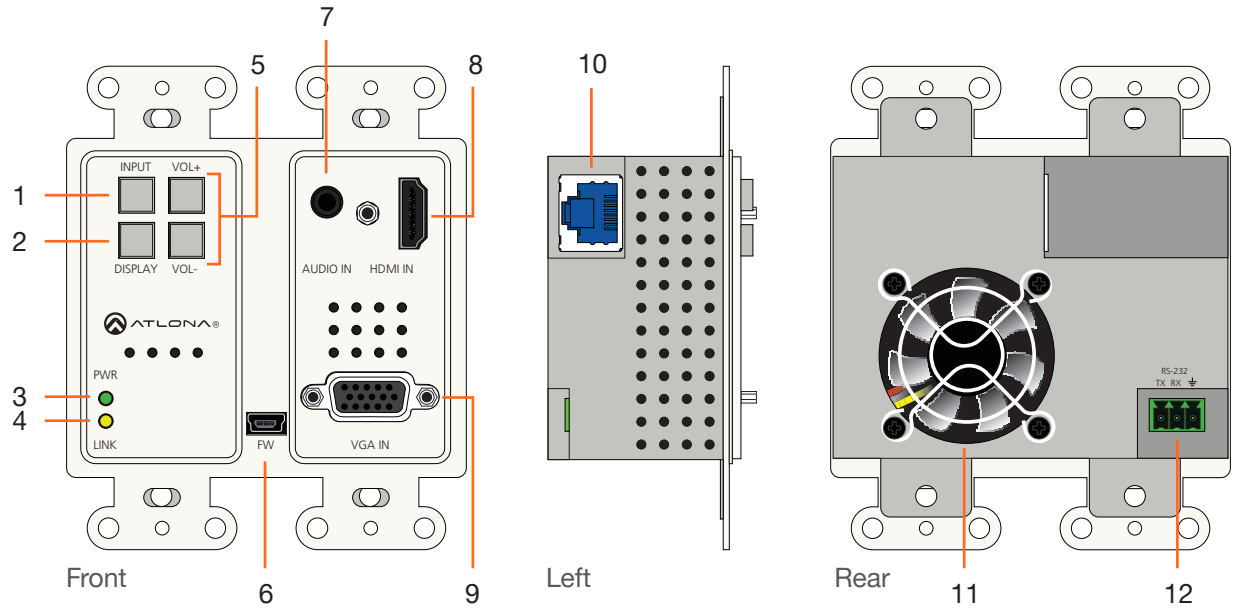
AT-HDVS-200-TX-WP

1 x AT-HDVS-200-TX-WP
1 x Captive screw connector, 3-pin
1 x Faceplate, w/ LAN port exposed
1 x Installation Guide

AT-HDVS-200-TX-WP-BLK

1 x AT-HDVS-200-TX-WP-BLK
1 x Captive screw connector, 3-pin
1 x Black faceplate, w/ LAN port exposed
1 x Installation Guide

Panel Description



1 INPUT
Press this button to toggle between each of the available inputs: **HDMI IN** and **VGA IN**.

2 DISPLAY
Press this button to turn on/off video output for the switcher. This button can also be programmed to send a display on/off command over CEC, RS-232, or TCP/IP, to controllable displays or other connected devices, or send trigger commands over RS-232 or TCP/IP.

3 PWR
This LED indicator will glow bright green when the switcher is powered.

4 LINK
This LED indicator will glow bright amber when a link exists between the AT-HDVS-200-TX-WP and a PoE-compatible receiver.

5 VOL+ / VOL-
Press these buttons to increase or decrease the volume level on the display.

6 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 67) for more information.

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

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

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

10 HDBaseT
Use an Ethernet cable to connect an HDBaseT PoE-compatible receiver to this port.

11 Cooling Fan Assembly
Provides active cooling for the switcher by expelling warm air from the enclosure. To prevent overheating, make sure this vent is not blocked.

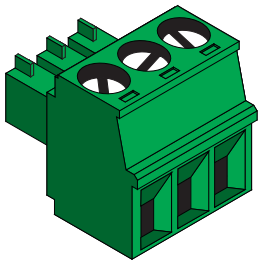
12 RS-232
Connect the included 3-pin captive-screw terminal block from this connector to an RS-232 control device.

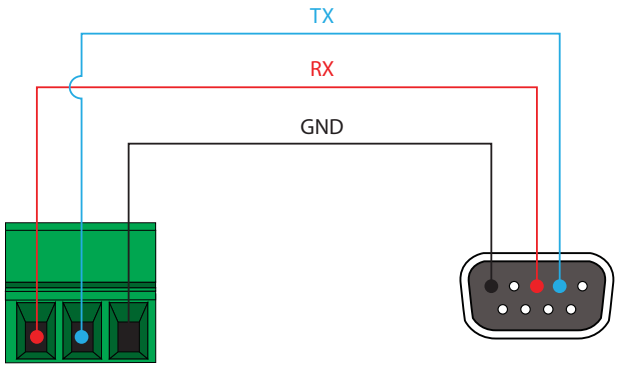
Installation

RS-232 Connector

The AT-HDVS-200-TX-WP 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

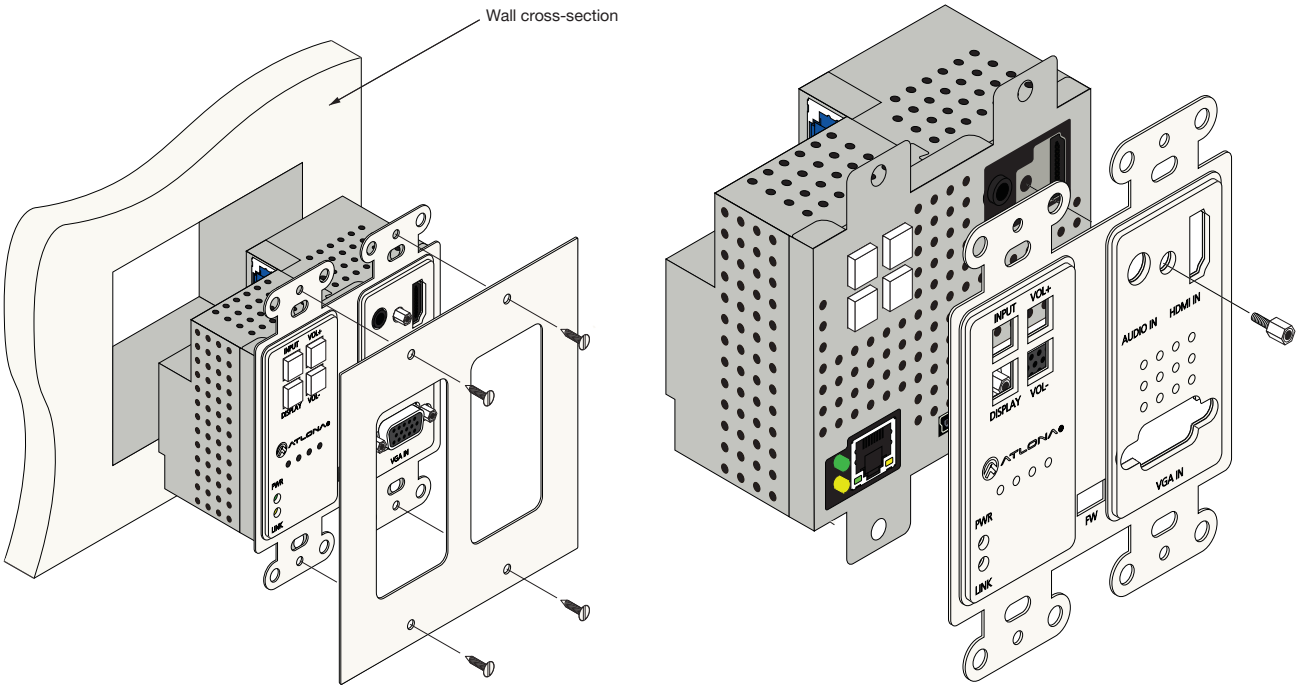
1. Determine the proper faceplate to be used for installation. If using the LAN port, then refer to Faceplate Removal and Assembly (page 11) for information on changing the faceplate.
2. Connect an Ethernet cable, up to 230 feet (70 meters), from the **HDBaseT** port on the switcher to a PoE-compatible transmitter (not included). Ethernet cables should use EIA/TIA-568B termination. CAT6a/7 solid core cables should be used for best results.
3. Complete the installation of the AT-HDVS-200-TX-WP into the electrical box or mudring. Refer to the Connection Diagram (page 12) if necessary.
4. Connect an HDMI cable between the HD source and the **HDMI IN** port on the switcher.
5. Connect a VGA cable from a VGA source to the **VGA IN** port on the switcher.
6. 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-WP can pass audio either with or without a video signal. Refer to the **Audio Freerun Status** option under the Audio page (page 22).
7. OPTIONAL: Connect an RS-232 control device to the **RS-232** port on the switcher. This port is used to control functions of the AT-HDVS-200-TX-WP, such as volume up/down, display on/off, etc.

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

Faceplate Removal and Assembly

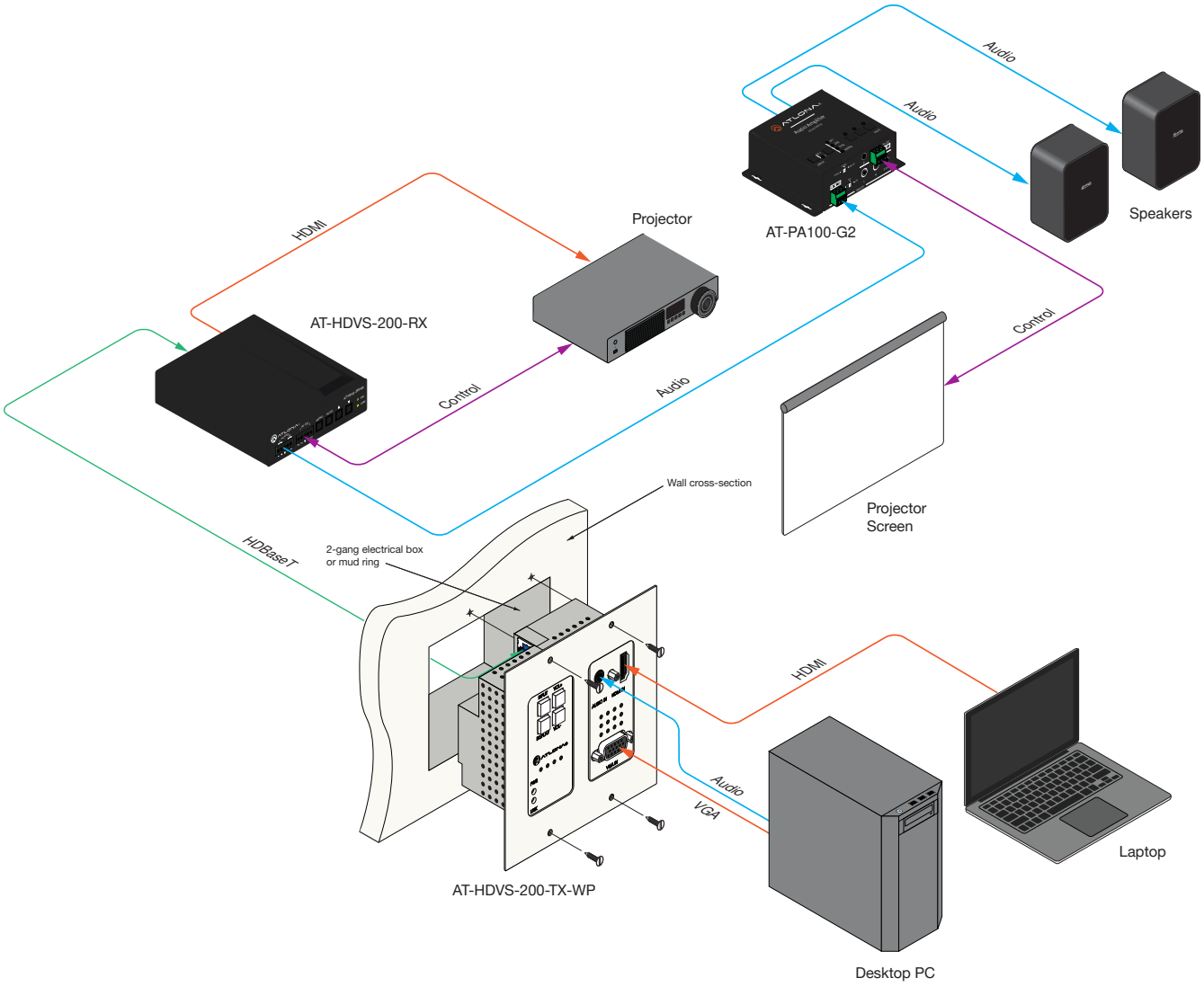
The AT-HDVS-200-TX-WP comes with an additional faceplate, which allows an Ethernet cable to be connected through the front panel. Removal of the faceplate requires that the AT-HDVS-200-TX-WP be removed from the electrical box or mud ring.

1. Remove the wall plate from the electrical box and slide out the AT-HDVS-200-TX-WP assembly, as shown. It is recommended that the Ethernet cable, connected to the HDBaseT port, be disconnected from the AT-HDVS-200-TX-WP, to allow for easy installation of the new faceplate.



2. Unscrew the hex bolt, next to the HDMI connector on the front panel. Once the hex bolt is removed, gently remove the faceplate by pulling it toward you.
3. Attach the new faceplate and secure it using the hex bolt.
4. Install the AT-HDVS-200-TX-WP into the electrical box or mud ring. If the Ethernet cable was disconnected from the AT-HDVS-200-TX-WP during disassembly, make sure to reconnect it before reinstalling the unit into the electrical box.
5. Reattach the wallplate, securing the assembly in place.

Connection Diagram

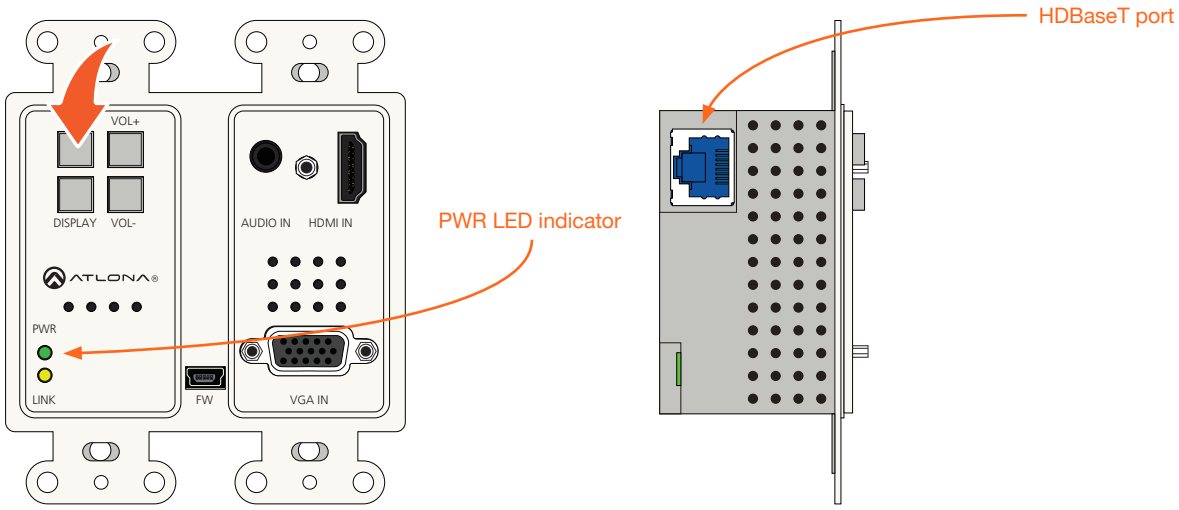


IP Configuration

The AT-HDVS-200-TX-WP 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 back 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-WP is 192.168.1.254.

Using the Front Panel

1. Make sure the AT-HDVS-200-TX-WP is powered, by connecting it to a PoE-compatible receiver, such as the AT-HDVS-200-RX. Both power and IP control is carried over the HDBaseT port.
2. Press and hold the **INPUT** button for approximately 15 seconds.



3. Release the **INPUT** button once the **PWR** 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 37), for more information. All commands and their arguments are case-sensitive.

- **Setting static IP mode**
  1. Connect to the AT-HDVS-200-TX-WP 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-WP, 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-WP 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).

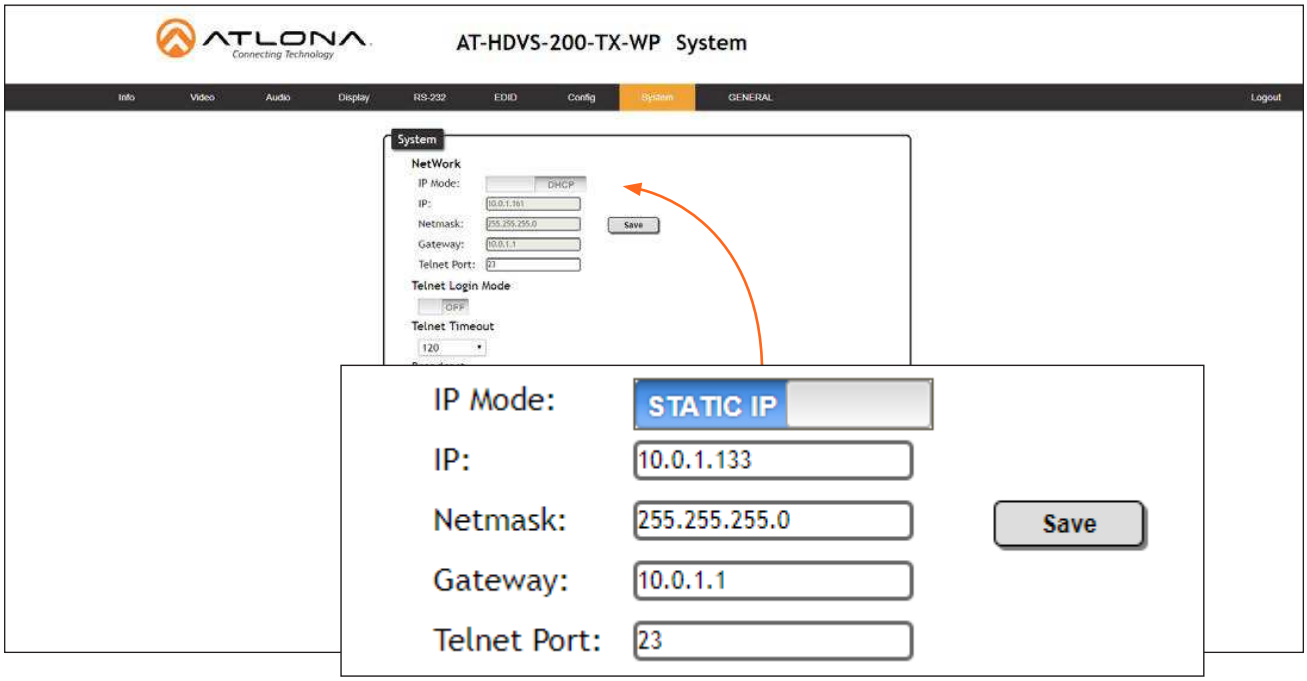
Using the Web GUI

The System page (page 31), in the web GUI, allows the AT-HDVS-200-TX-WP to use either DHCP or static IP mode. In order to access the web GUI, the IP address of the AT-HDVS-200-TX-WP must be known.

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

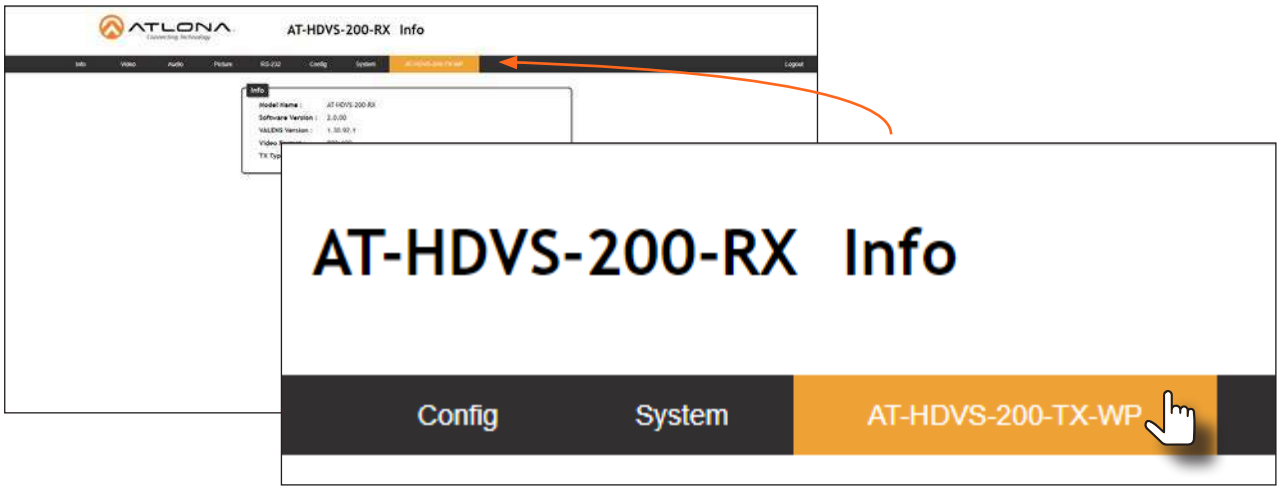
Introduction to the Web GUI

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

The AT-HDVS-200-TX-WP 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-WP. If a static IP address is desired, refer to IP Configuration (page 13). The default static IP address of the AT-HDVS-200-TX-WP is 192.168.1.254.

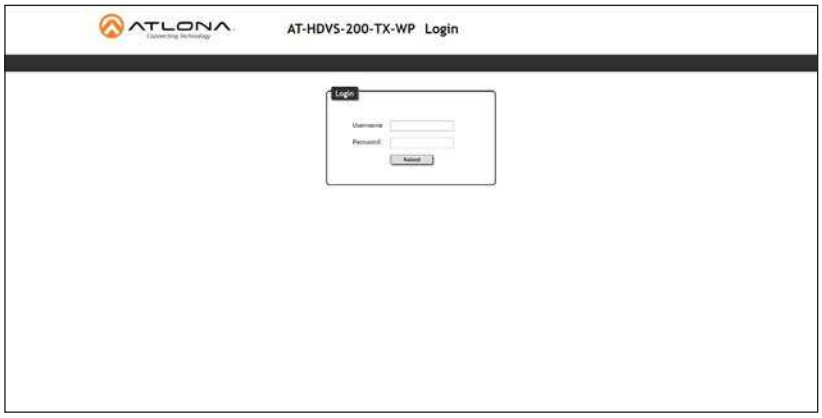
NOTE: The web GUI can only be accessed if the AT-HDVS-200-TX-WP is connected to a compatible PoE receiver unit, such as the AT-HDVS-200-RX, using the **HDBaseT** port. The receiver must be connected to the network.

1. Launch a web browser.
2. Use one of the following methods to access the IP address of the AT-HDVS-200-TX-WP:
   a. Login to the web GUI of the receiver unit that is connected to the AT-HDVS-200-TX-WP. Once logged in, click the link for the AT-HDVS-200-TX-WP, as shown:

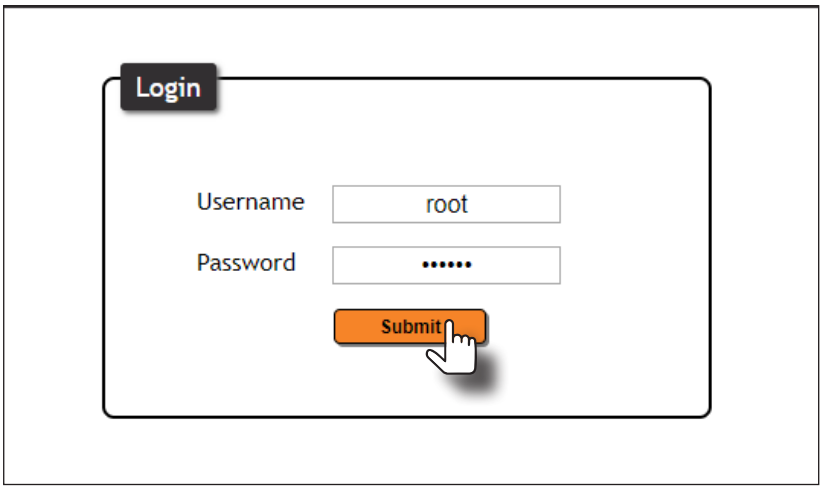


   b. Use an IP scanner to locate the IP address of the AT-HDVS-200-TX-WP on the network. The MAC address, on the back of the unit, can be used to identify the unit with the IP address.

3. The **Login** page for the receiver 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 30) for more information.
6. Click the **Submit** button or press the ENTER key on the keyboard.



7. The **Info** page will be displayed.

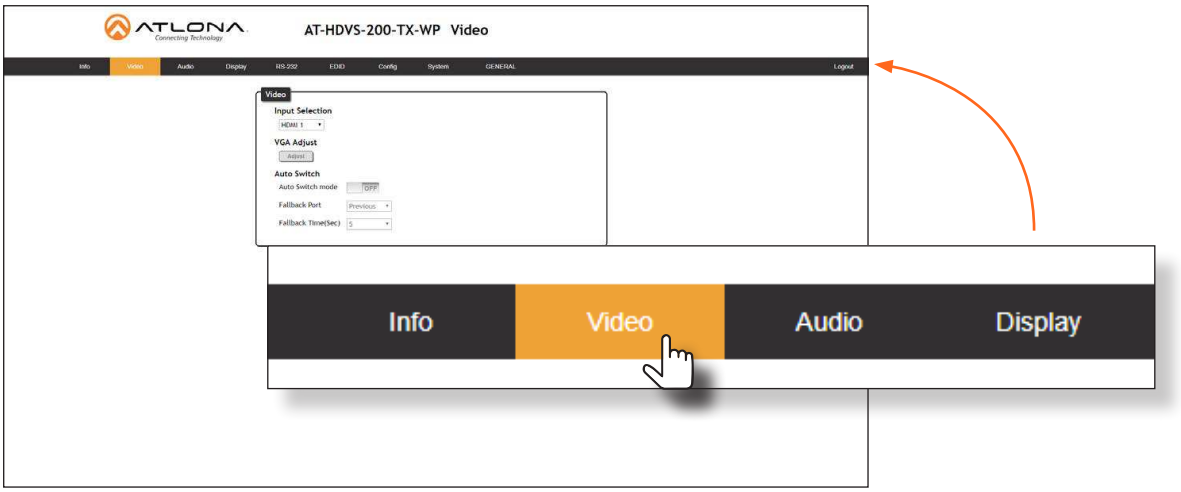


Menu Bar

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.

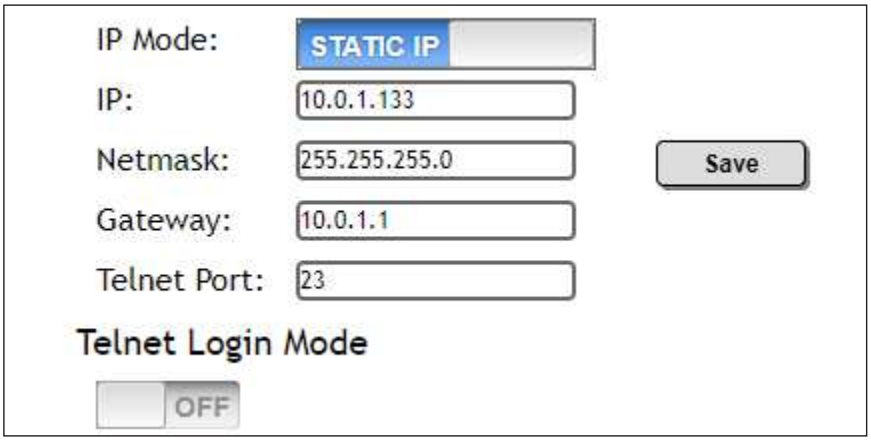


In this example, clicking **Video**, in the menu bar, will display the **Video** page.



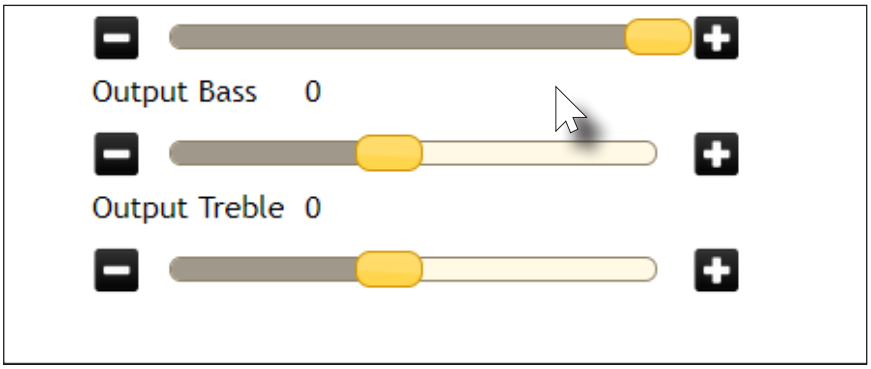
Toggles

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.



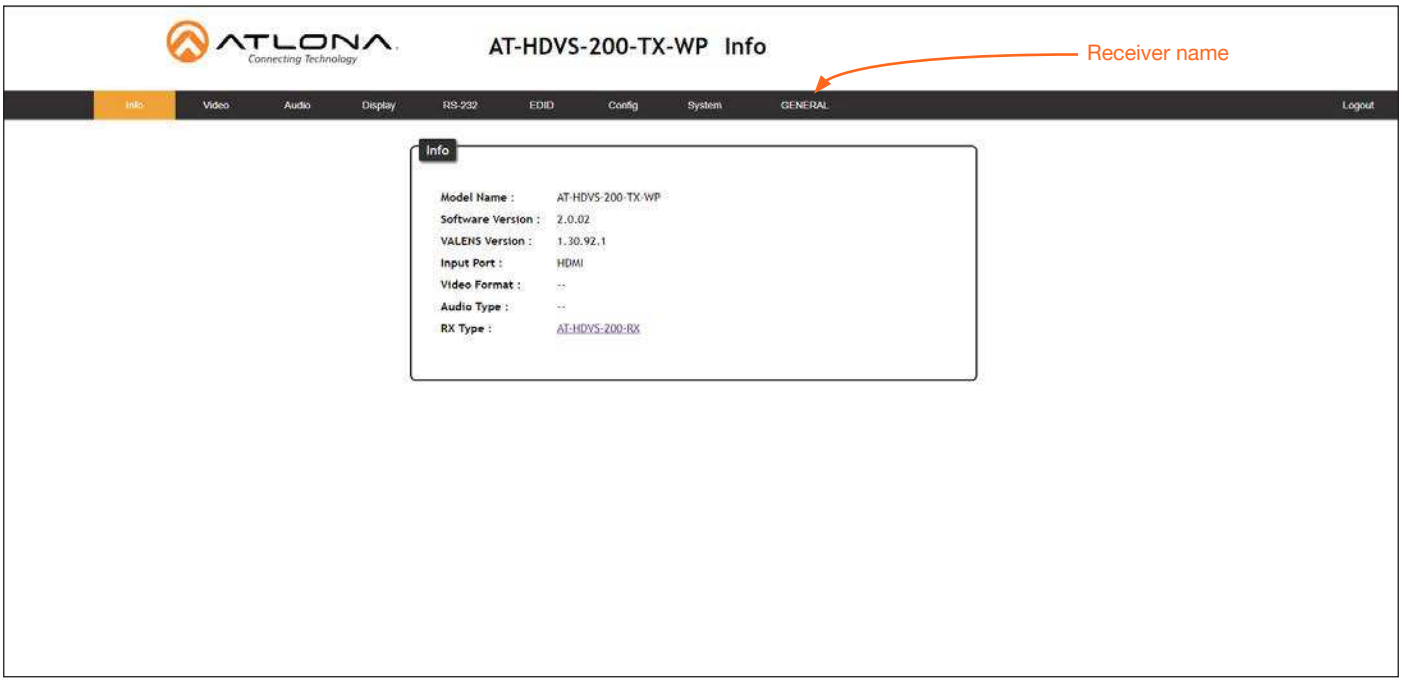
Buttons

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

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

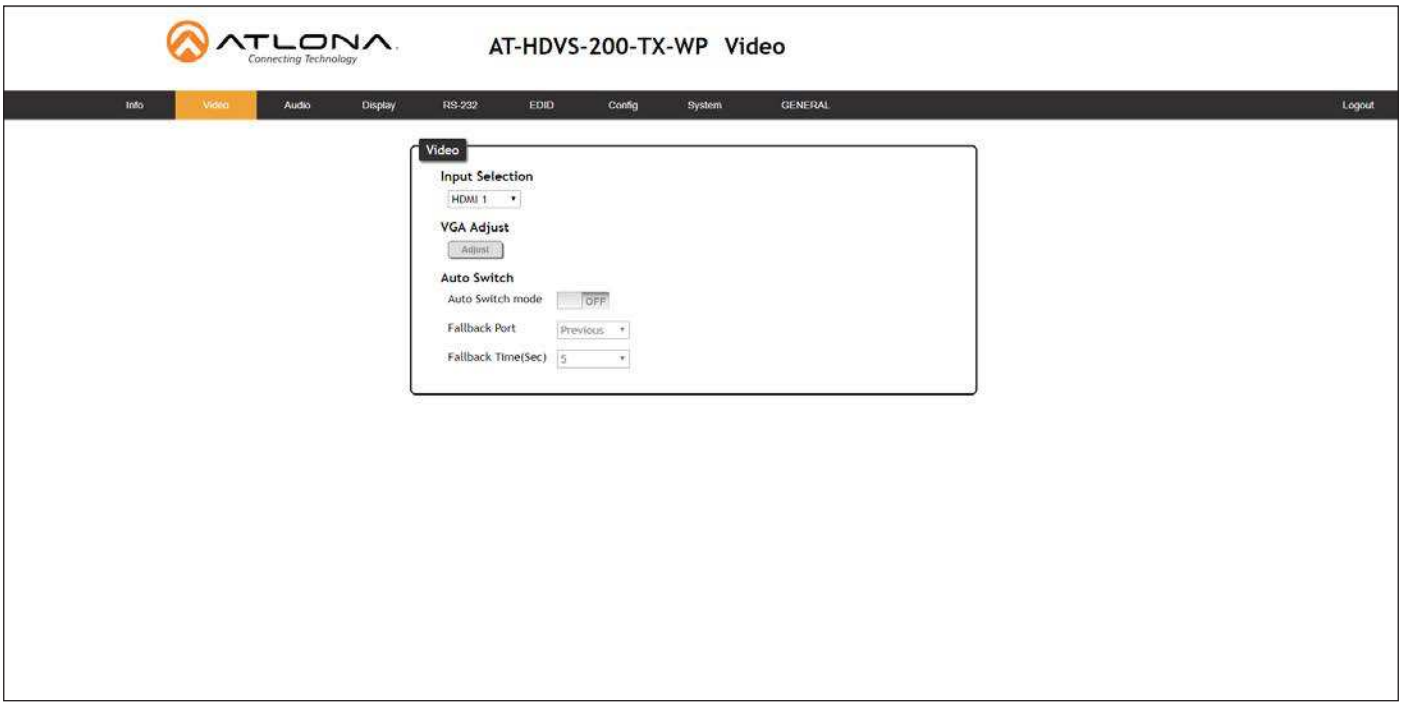
Input Port
Displays the active video input port.

Video Format
Displays the input resolution of the source device.

Audio Type
Displays the input audio format.

RX Type
The model of the connected receiver unit. If the AT-HDVS-200-TX-WP is connected to either a PoE-compatible projector or a device that is unable to communicate over HDBaseT, then the text “GENERAL” will be displayed in the menu ribbon. When the AT-HDVS-200-TX-WP is connected to the AT-HDVS-200-RX, the system will be placed in *kit mode*. In *kit mode*, the name of the receiver will be displayed and additional options will be available under both the **Video** page and the **RS-232** page. Refer to Kit Mode (page 33) 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.

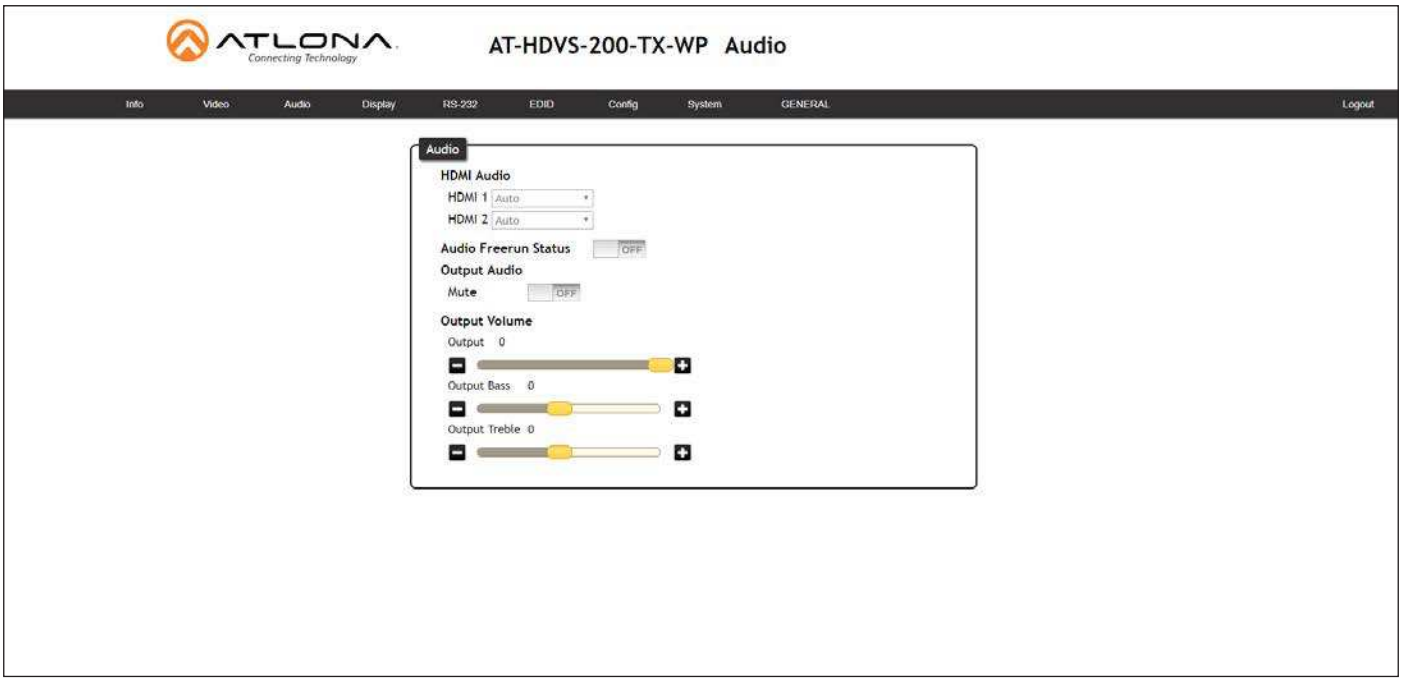
- Click the **Auto Switch** mode toggle to enable or disable auto-switching.
- Click the **Fallback Port** drop-down list to select the fallback port. If the source is disconnected from the active port, then the switcher can be configured to automatically switch to the desired port. Click the **Auto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

Setting	Description
HDMI 1	Automatically switches to HDMI 1.
VGA	Automatically switches to VGA.

- 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 33) 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 33) 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.

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.

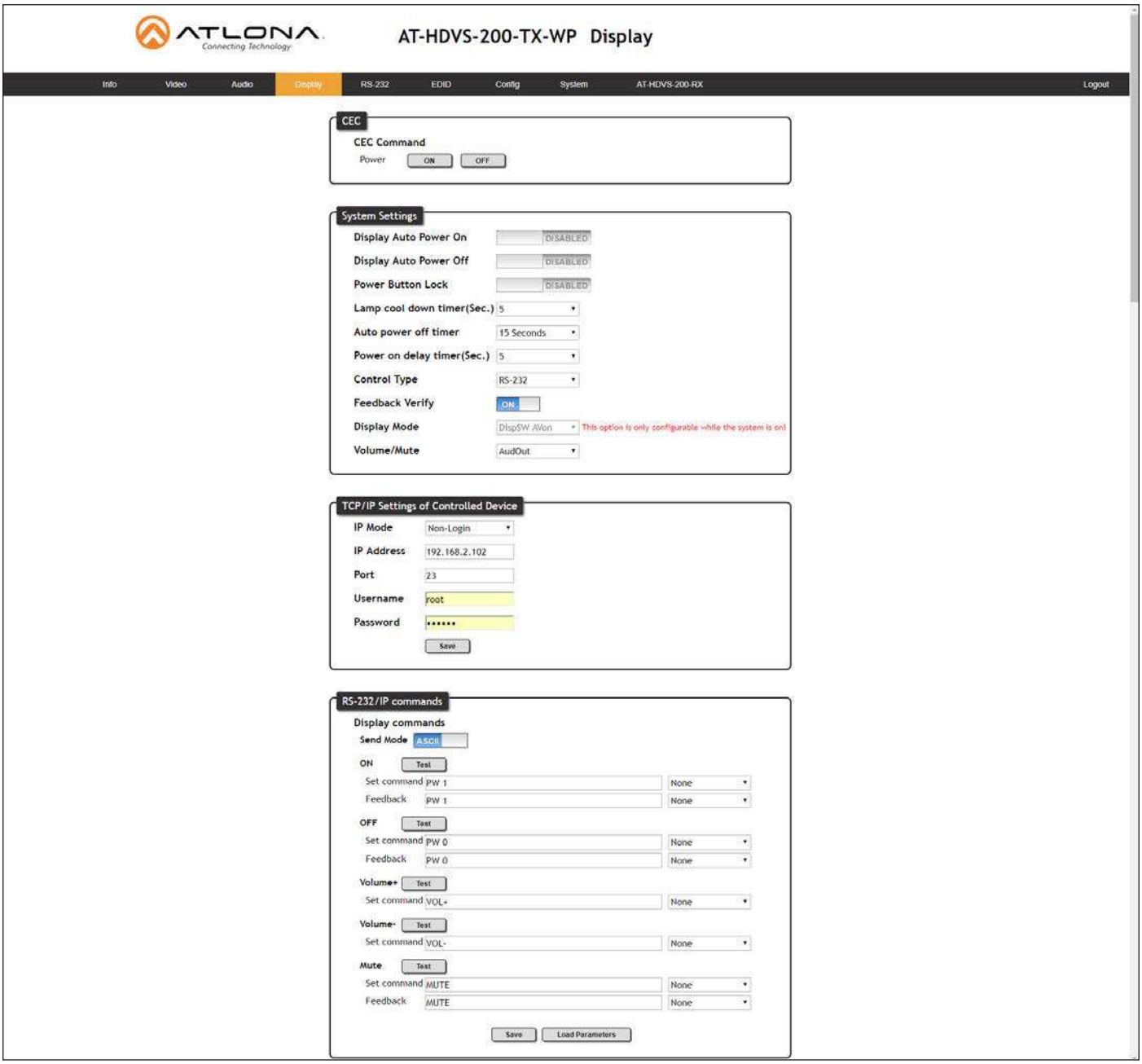
L/R Audio
Click this toggle to the **OFF** position to mute only the analog audio.

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.

Consumer Electronics Control (CEC): Atlona has confirmed proper CEC functionality with several current models of Samsung, Panasonic, and Sony displays. However, it is not guaranteed that CEC will work with all displays. Many manufacturers do not support the CEC "off" command, and older displays use proprietary commands. Atlona only supports displays that use the CEC command structure defined in HDMI 1.2a. It is recommended that dealers request an evaluation product from Atlona, before designing a system using the CEC protocol. If this is not possible, then other control methods will need to be considered, in order to control displays using Atlona products.

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-WP 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

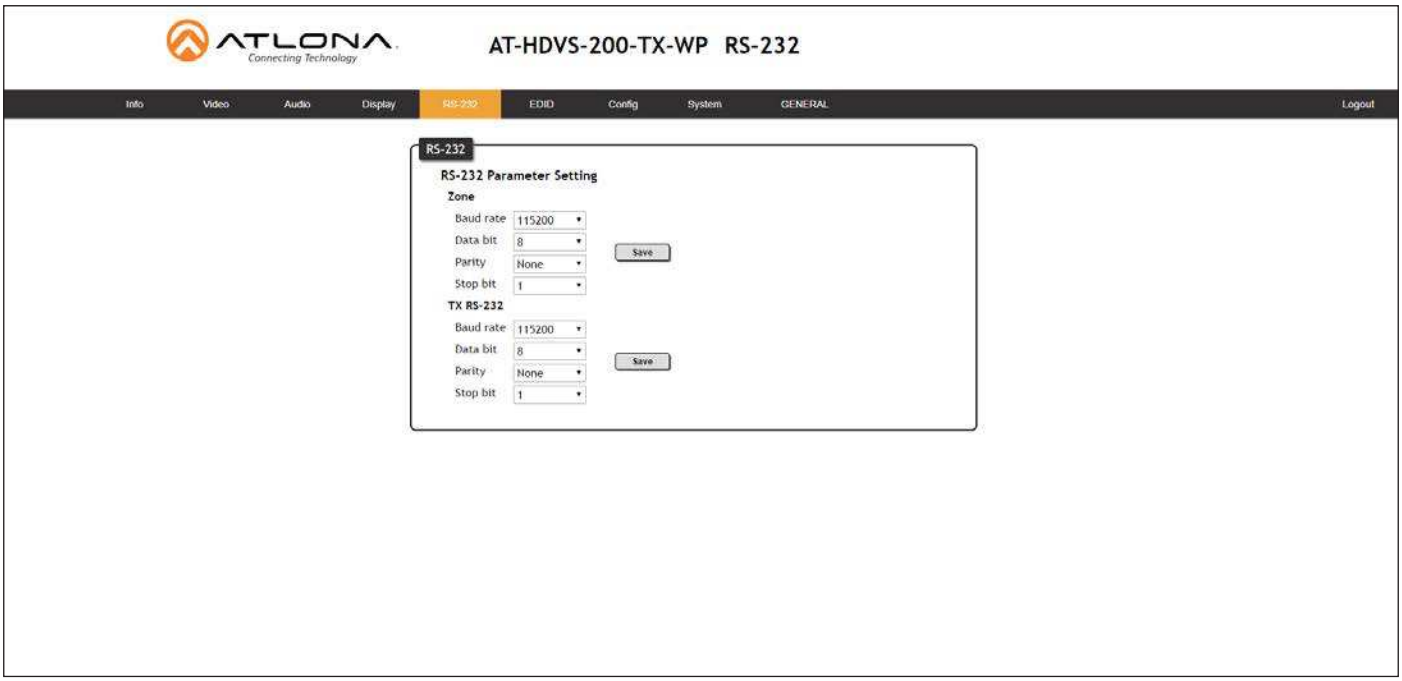
Send Mode
Sets the type of commands that are sent to the display, either **ASCII** or **Hex**.

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



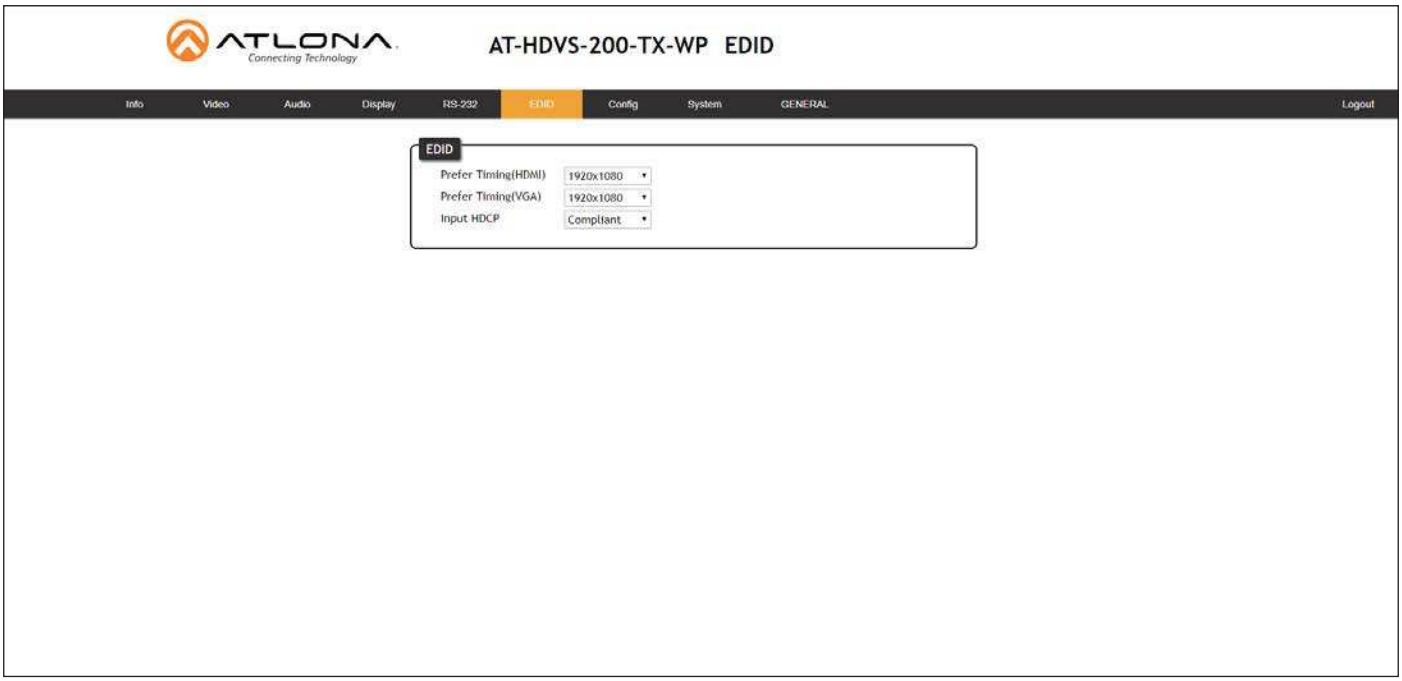
Zone
When the AT-HDVS-200-TX-WP is connected to the AT-HDVS-200-RX, the system is placed in *kit mode*. In this mode, the drop-down list boxes will be disabled and the HDBaseT baud rate will be locked at 115200.

If the AT-HDVS-200-TX-WP 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-WP. 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.

Input HDCP
Provides control over the transmission of HDCP content for the **HDMI IN** port. 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.

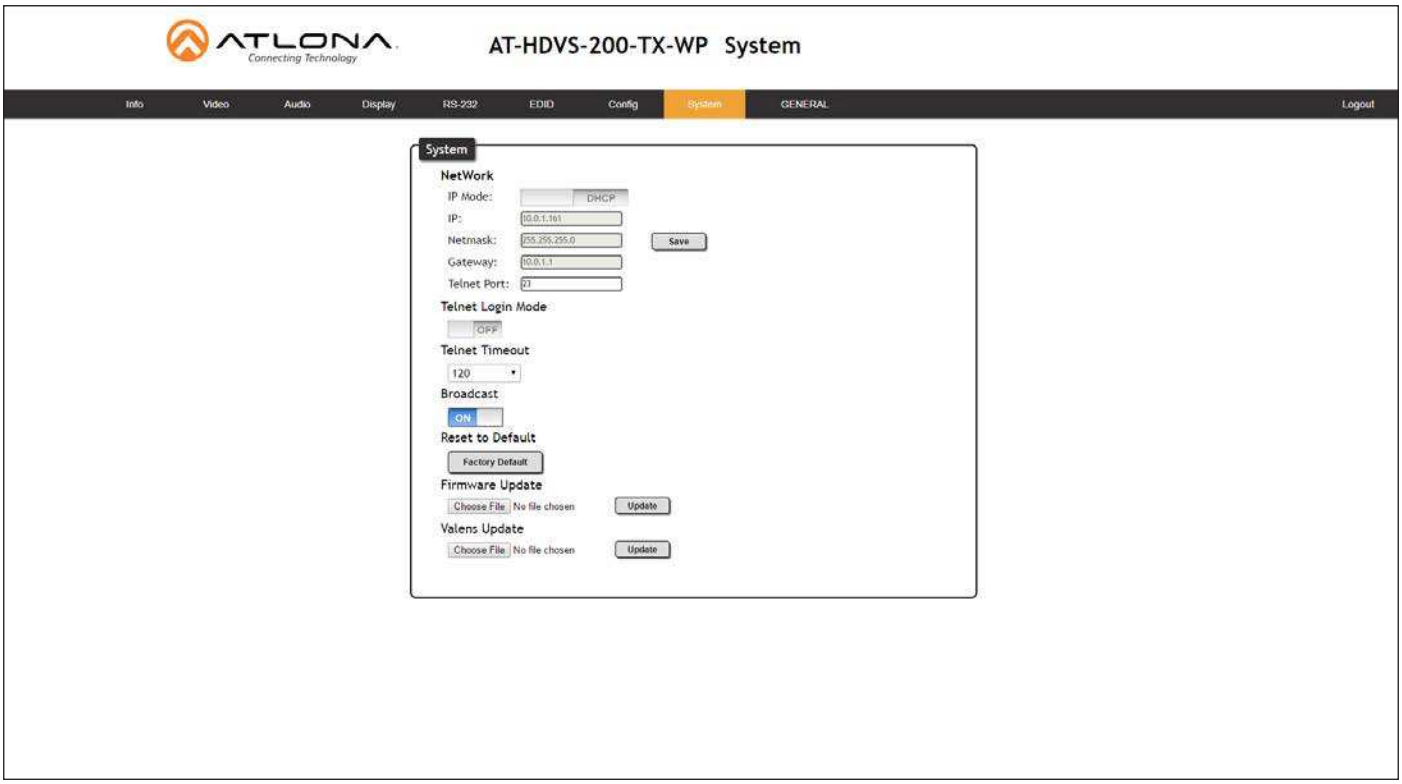
New Password
Enter the new password fro the "root" username in this field.

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-WP. By default, the AT-HDVS-200-TX-WP is set to DHCP mode. Available settings: STATIC IP, DHCP.

IP
Enter the IP address of the AT-HDVS-200-TX-WP 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-WP 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-WP to factory-default settings.

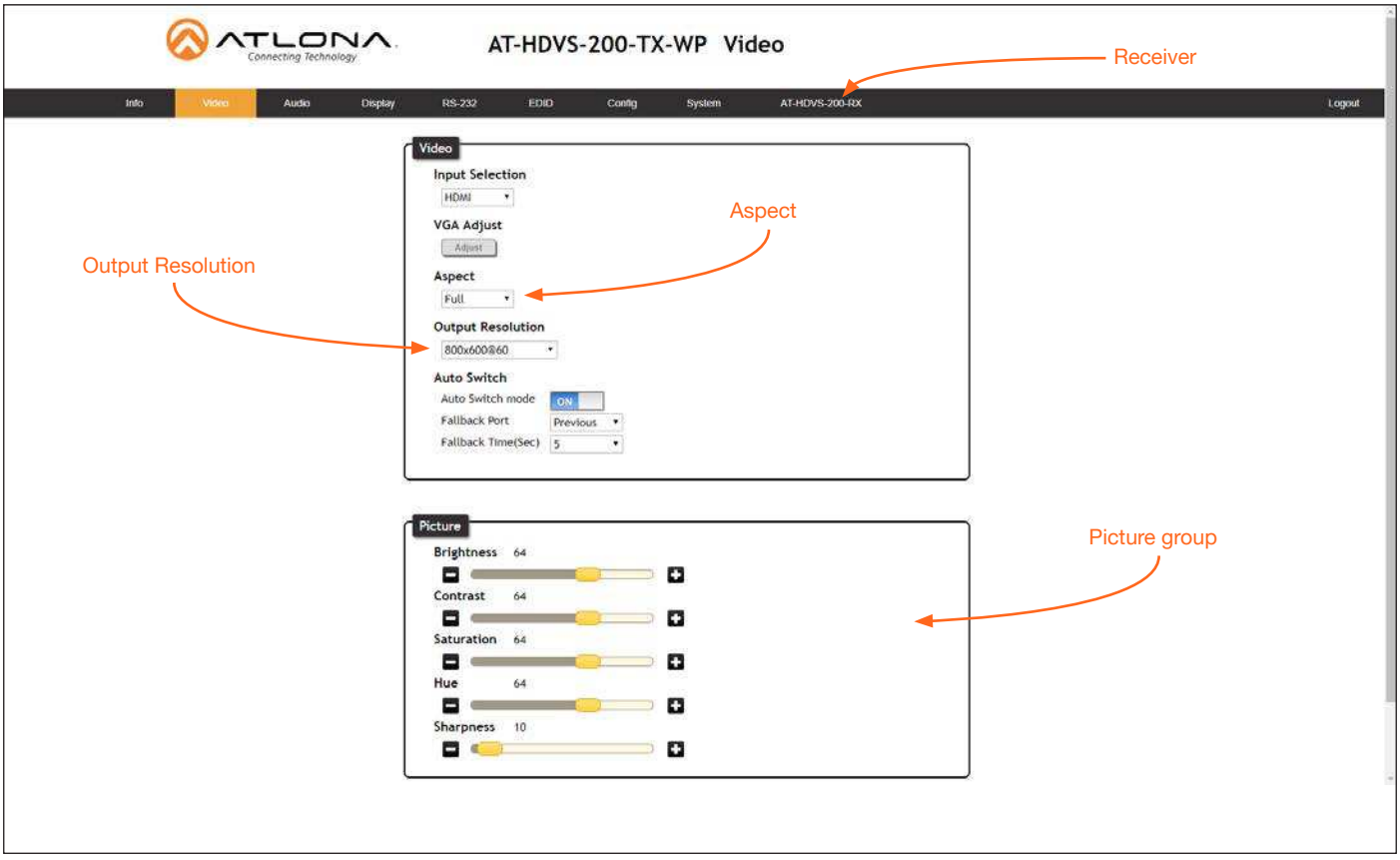
Firmware Update
Click the **Choose File** button to select the firmware file, when upgrading the firmware on the AT-HDVS-200-TX-WP. Once the firmware file is selected, click the **Update** button. Refer to Updating the Firmware (page 67) for more information.

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

Kit Mode

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

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

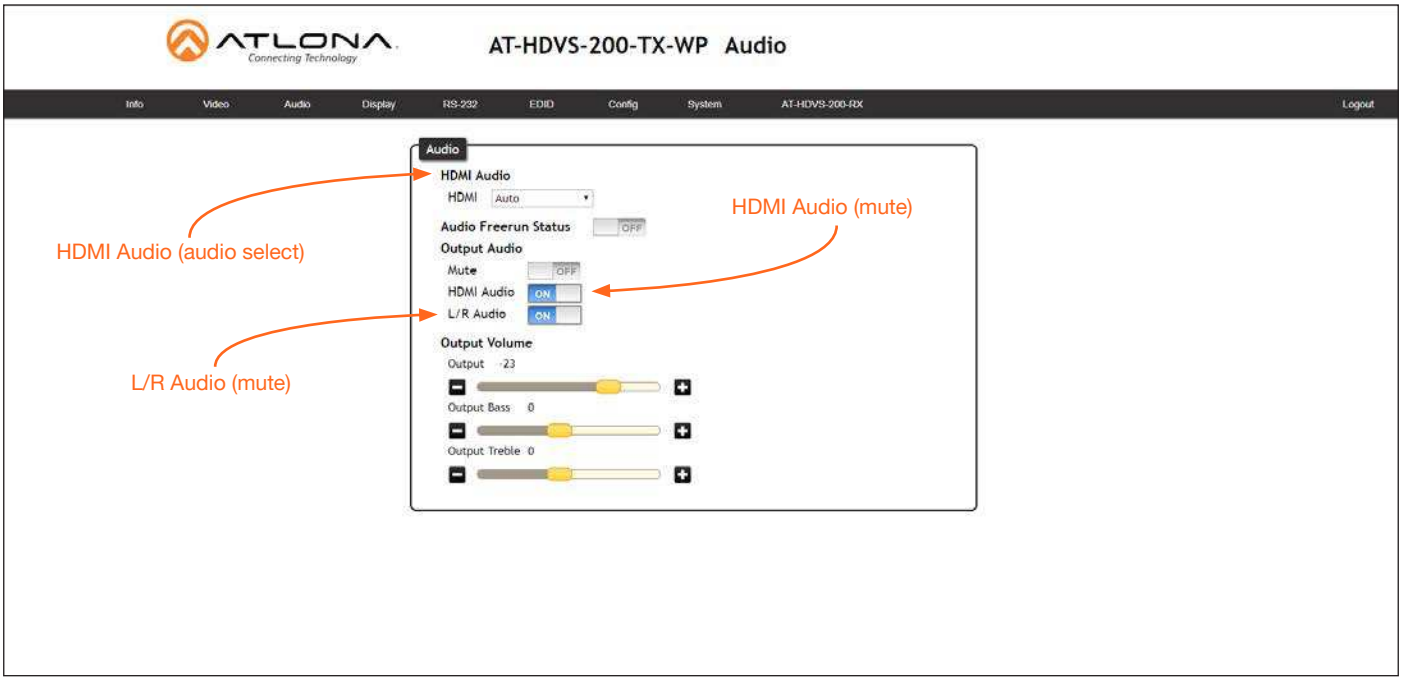
Saturation
Adjusts the color saturation of the output signal. Range: 0 - 128

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



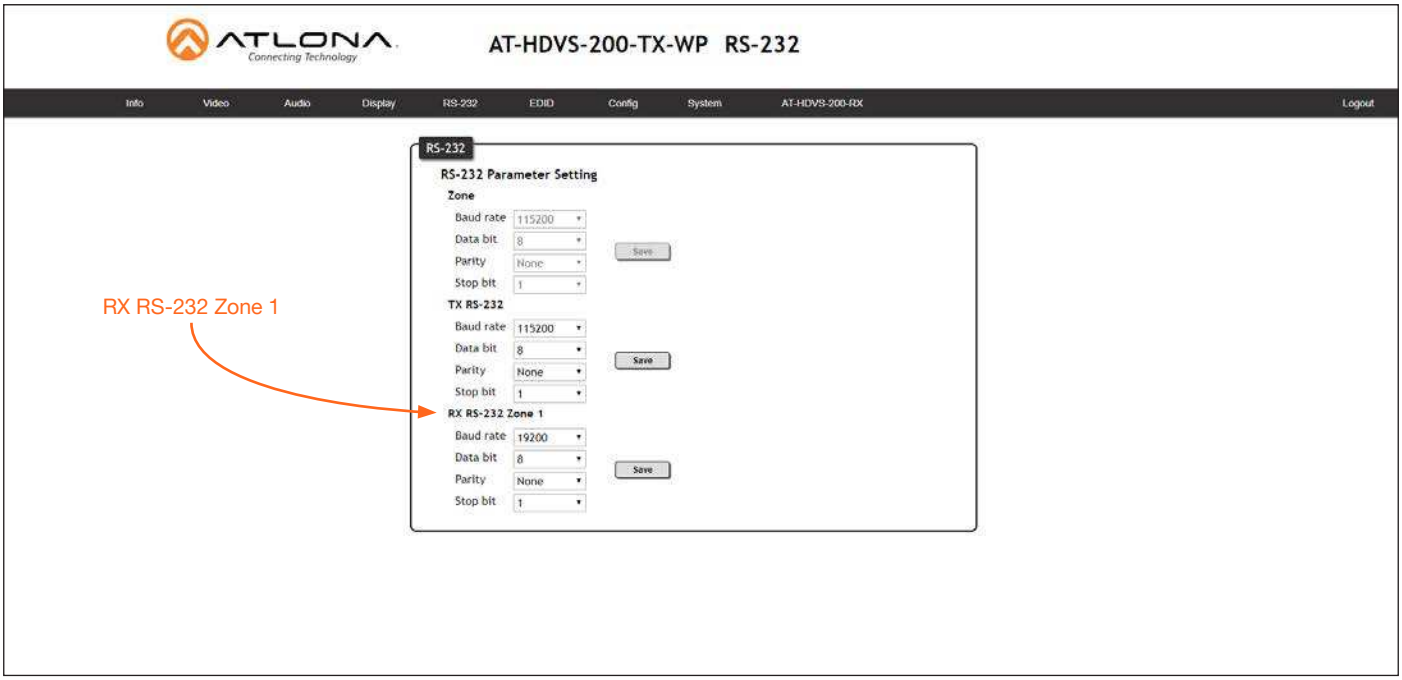
HDMI Audio
Click the drop-down list for HDMI 1 and HDMI 2 to select the input audio source used by each HDMI input.

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-WP. 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-WP
IPDelUser	Deletes the specified Telnet user
IPDHCP	Enables or disables DHCP mode on the AT-HDVS-200-TX-WP
IPLogin	Enables or disables login credentials when starting a Telnet session
IPPort	Sets the Telnet listening port for the AT-HDVS-200-TX-WP
IPStatic	Sets the static IP address, subnet mask, and gateway for the AT-HDVS-200-TX-WP
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-WP 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-WP
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-WP
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 1 = 16:9 2 = 16:10 3 = 4:3 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 2 = HDMI IN 2 3 = VGA IN 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 dig = Digital audio only 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 30) 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-WP.

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 30) 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-WP. 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-WP. 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-WP. If this feature is set to on, then the AT-HDVS-200-TX-WP 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-WP. 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-WP. Before using this command, DHCP must be disabled on the AT-HDVS-200-TX-WP. 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-WP 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-WP. 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 27) 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-WP 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-WP. The sta argument must be specified.

Syntax
System X

Parameter	Description	Range
X	Status	sta

Example
System sta

Feedback
Model: AT-HDVS-200-TX-WP
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-WP.

Syntax
Type

This command does not require any parameters

Example
Type

Feedback
AT-HDVS-200-TX-WP

Update

Places the AT-HDVS-200-TX-WP 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 68) procedure, outlined under Updating the Firmware (page 67), 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-WP. 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

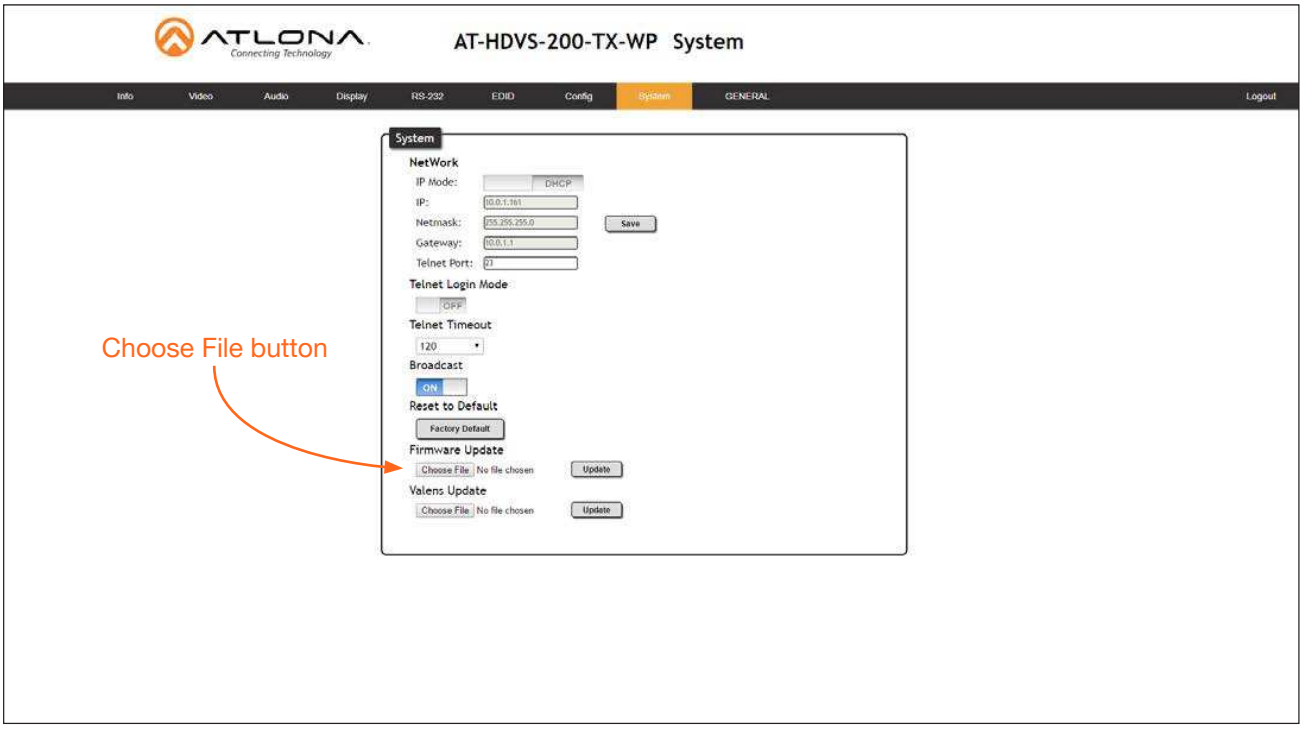
Updating the firmware can be completed using either the USB interface or the web GUI. Atlona recommends using the web GUI for updating the firmware. However, if a network connection is not available, the AT-HDVS-200-TX-WP firmware can be updated using a USB-A to USB mini-B cable

Using the Web GUI

Requirements

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

1. Connect an Ethernet cable from the computer, containing the firmware, to the same network where the AT-HDVS-200-TX-WP is connected.
2. Go to the System page (page 31) in the web GUI.

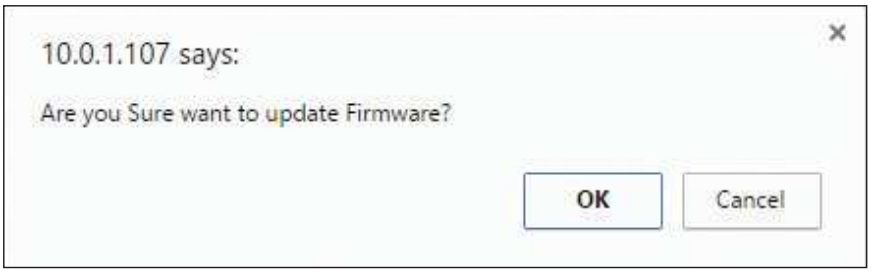


3. Click the **Choose File** button, under the **Firmware Update** section.

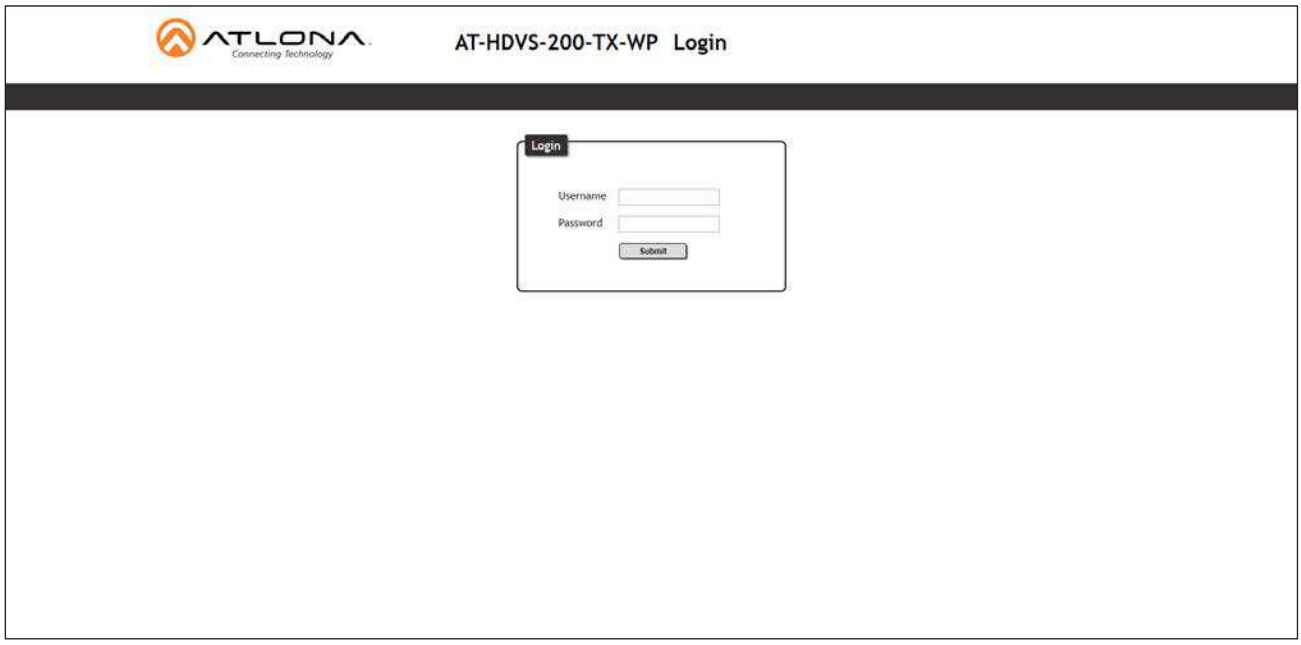
IMPORTANT: When updating the firmware, make sure to select the **Choose File** button under **Firmware Update**. The **Valens Update** section does not apply to this procedure.

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.

6. The following message box will be displayed.



7. Click the **OK** button to begin the firmware update process. Click the **Cancel** button to cancel the process.
8. After the firmware update process is complete, the **Login** screen will be displayed.

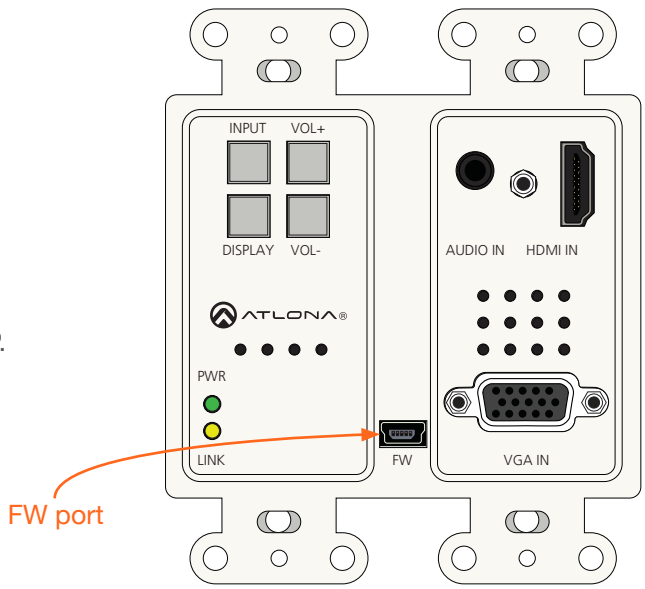


Using USB

Requirements

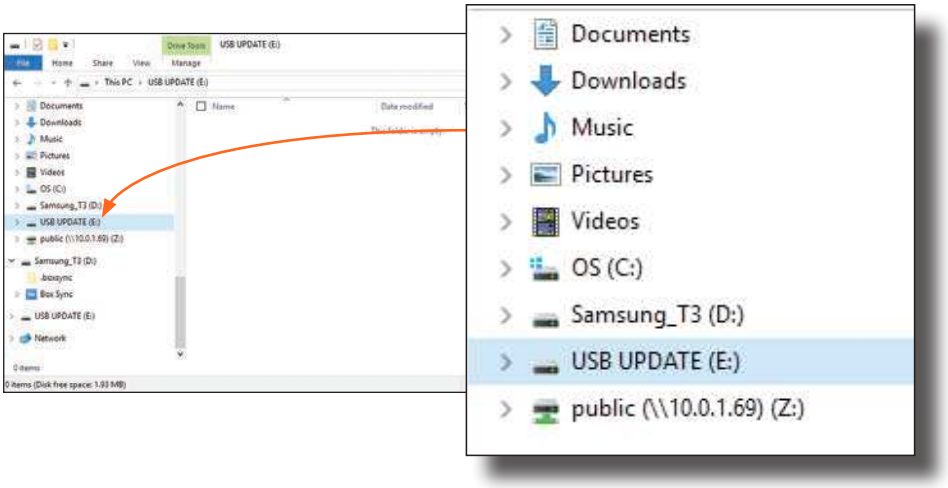
- AT-HDVS-200-TX-WP
- Firmware file
- Computer running Windows
- USB-A to USB mini-B cable

1. Disconnect power from the AT-HDVS-200-TX-WP.
2. Remove the wall plate from the AT-HDVS-200-TX-WP.
3. Locate the FW port on the front panel.



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

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	

Appendix

Power	
Consumption	TBD

Dimensions	
Wall	2 gang

Weight	Pounds	Kilograms
Device	TBD	TBD

Certification	
Unit	CE, FCC

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