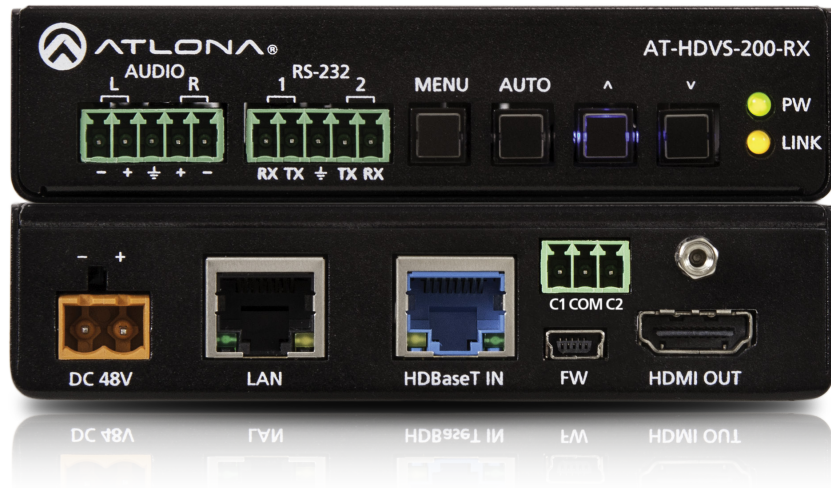


Ethernet-Enabled HDBaseT™ Scaler

with HDMI and Analog Audio Outputs



Version Information

Version	Release Date	Notes
1	01/16	Initial release
2	06/17	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-RX> 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.

Atlona, Inc. (“Atlona”) Limited Product Warranty

- 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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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.

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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.

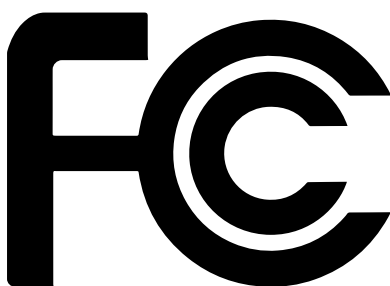


The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

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	8
Features	8
Package Contents	8
Panel Description	9
Installation	10
RS-232 Connector	10
Audio Connector	10
Relay Connector	11
Power Connector	11
Connection Instructions	12
Connection Diagram	12
Menu System	13
Accessing the On-Screen Display	13
Input Select	14
Input Resolution	14
Output Resolution	15
Picture Adjust	15
Aspect	16
Overscan	16
Audio	17
OSD	18
Others	19
Information	20
System Setup	22
The Web GUI	23
Introduction to the Web GUI	23
Menu Bar	24
Toggles	25
Sliders	25
Buttons	25
Info page	26
Video page	27
Input	27
Output	27
Audio page	29
Picture page	30
RS-232 page	31
Config page	32
System page	33
Relay	33
System	33
Commands	35
Appendix	53
Updating the Firmware	53
Using the Web GUI	53
Using USB	54
Default Settings	56
Specifications	58
Index	60

Introduction

The Atlona **AT-HDVS-200-RX** is an HDBaseT receiver and HD scaler for video signals up to 1080p, plus embedded audio, control, and Ethernet over distances up to 330 feet (100 meters). The HDVS-200-RX is designed for use with the HDVS-200-TX switching transmitters, but can also be used with Atlona switchers, matrix switchers, and distribution amplifiers with HDBaseT outputs. The HDVS-200-TX and HDVS-200-RX together serve as a compact, automated AV system with the convenience of automatic input selection, display control, and HD scaling. The HDVS-200-RX remotely powers the HDVS-200-TX through Power over Ethernet (PoE).

The HDVS-200-RX offers advanced scaling capabilities including image adjustment capability, and a feature for automatically matching incoming signals to the display's native resolution. Integrated scaling and video processing help optimize image quality and switching performance. This receiver also features audio de-embedding, and third-party TCP/IP and RS-232 control of the scaler and display. Additionally, the HDVS-200-RX includes contact closure ports for controlling a motorized screen or display lift.

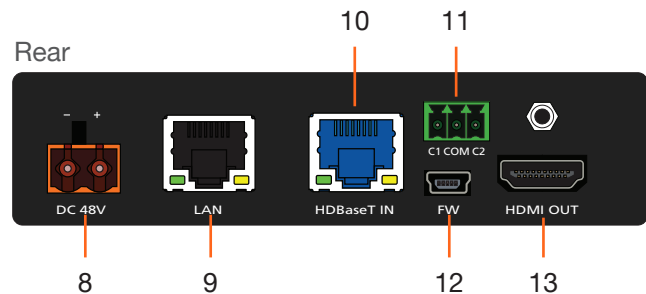
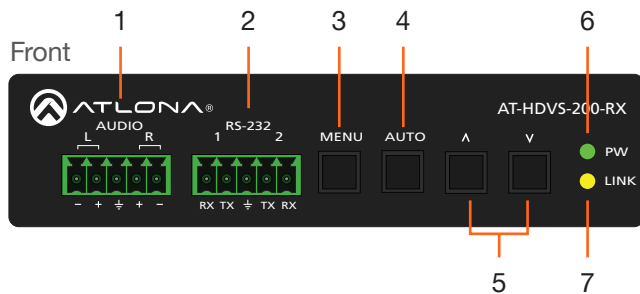
Features

- HD video scaler with HDMI® output and input resolution control
- Ideal for an HDVS-200-TX switching transmitter and Atlona HDBaseT-equipped switchers
- HDBaseT™ receiver for AV, Ethernet, power, and control up to 330 feet (100 meters)
- Automatic display control (when used with the HDVS-200-TX or compatible Atlona switcher)
- TCP/IP and RS-232 scaler and display control
- Contact closure for screen or display lift control
- Audio de-embedding
- Local AC powering – PoE (Power over Ethernet) source for HDVS-200-TX
- On-screen display with front panel menu controls

Package Contents

1 x AT-HDVS-200-RX
2 x Captive screw connectors, 5-pin
1 x Captive screw connectors, 3-pin
1 x Captive screw connectors, 2-pin
1 x Mounting brackets
1 x 48V DC power supply
1 x Installation Guide

Panel Description



1 AUDIO

Connect the included 5-pin Phoenix block from this connector to an audio amplifier.

2 RS-232

Use the included 5-pin captive screw connector to connect up to two RS-232 controllers or automation systems. Port 1 is used for controlling a display or other sink device. Port 2 is used for controlling the AT-HDVS-200-RX.

3 MENU

Press this button to display the built-in On-Screen Display (OSD).

4 AUTO

Press this button to perform an auto-adjust on VGA signals, connected to the transmitter. This feature automatically corrects the clock and phase of the VGA source.

5 Cursor buttons

Press these buttons to select items within the OSD.

6 PW

This LED indicator will glow bright green when the scaler is powered.

7 LINK

This LED indicator will glow bright amber when a link is established between the transmitter and receiver.

8 DC 48V

Connect the included 48V DC power supply to this power receptacle.

9 LAN

Connect an Ethernet cable from this port to the network.

10 HDBaseT IN

Use an Ethernet cable to connect an HDBaseT PoE transmitter to this port.

11 RELAY

Connect the included 3-pin captive screw connector to this port to control screens, drapes, lights, or other devices.

12 FW

Connect a mini USB type-B cable to this port to update the firmware. Refer to [Updating the Firmware \(page 53\)](#) for more information.

13 HDMI OUT

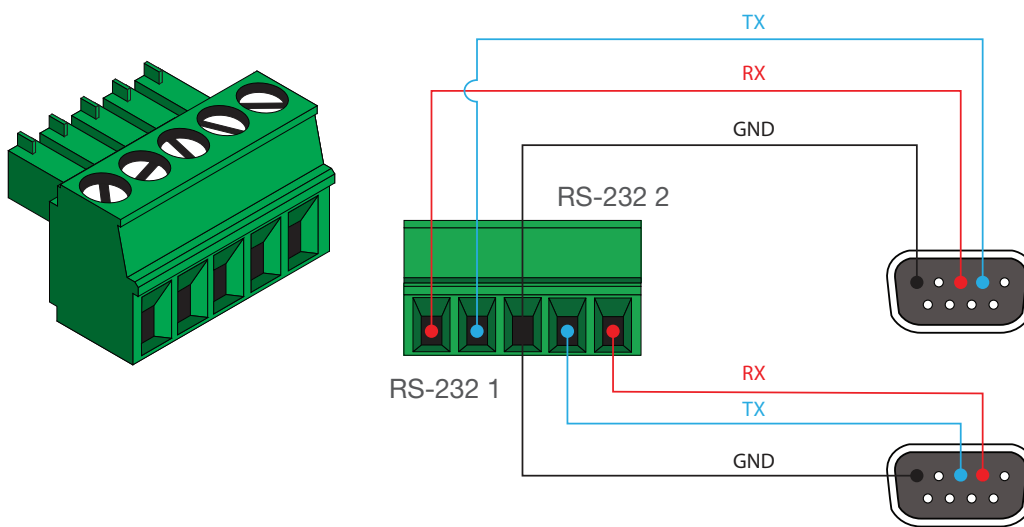
Connect an HDMI cable from this port to a display or other sink device.

Installation

RS-232 Connector

The AT-HDVS-200-RX provides two RS-232 ports. Port 1 is used for controlling a display or other sink device. Port 2 is used to control the AT-HDVS-200-RX. This step is optional.

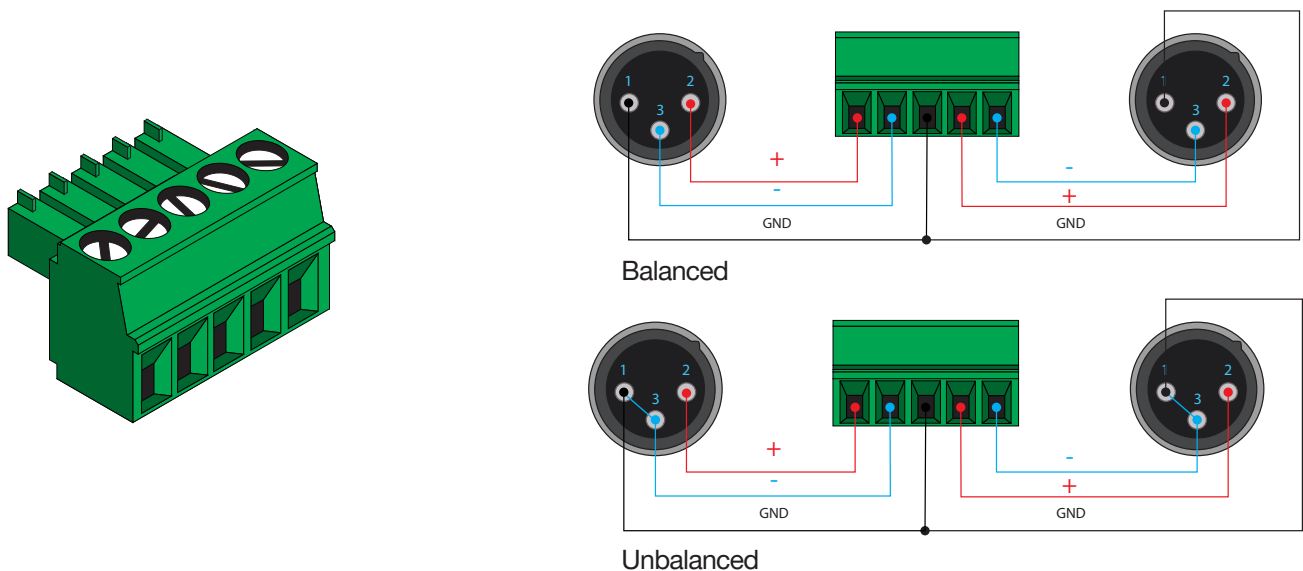
1. Use wire strippers to remove a portion of the cable jacket.
2. Remove at least 3/16" (5 mm) from the insulation of the RX, TX, and GND wires.
3. Insert the TX, RX, and GND wires into correct terminal on the included Phoenix block. If using non-tinned stranded wire, press the orange tab, above the terminal, while inserting the exposed wire. Repeat this step for the TX, RX, and GND connections. The illustration below, shows how to connect both RS-232 cables.



Audio Connector

The **AUDIO OUT** connector on the AT-HDVS-200-RX provides the connection of either balanced or unbalanced audio outputs using XLR connectors. Use the included 5-pin Phoenix terminal block.

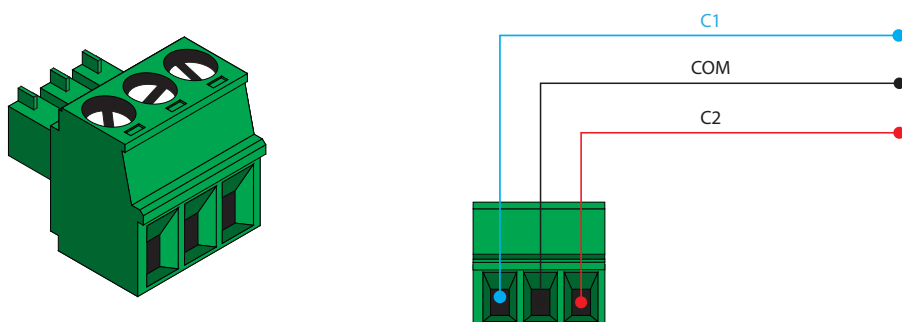
Balanced audio connections use two signal wires and a ground to minimize interference in audio signals. Unbalanced audio connections use one signal wire and a ground and are used if system components don't support balanced signals.



Relay Connector

The AT-HDVS-200-RX provides a **RELAY** port, allowing the control of screens, curtains, and other devices. Use a 48 V DC relay with no more than 1 A current draw.

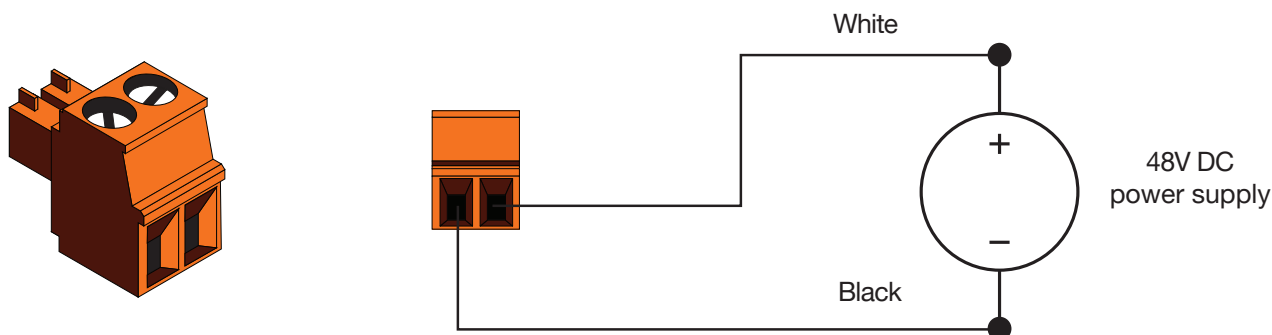
When the AT-HDVS-200-RX is powered-on or rebooted, **C1** and **C2** are set to the Normally Open (NO) state.



Power Connector

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

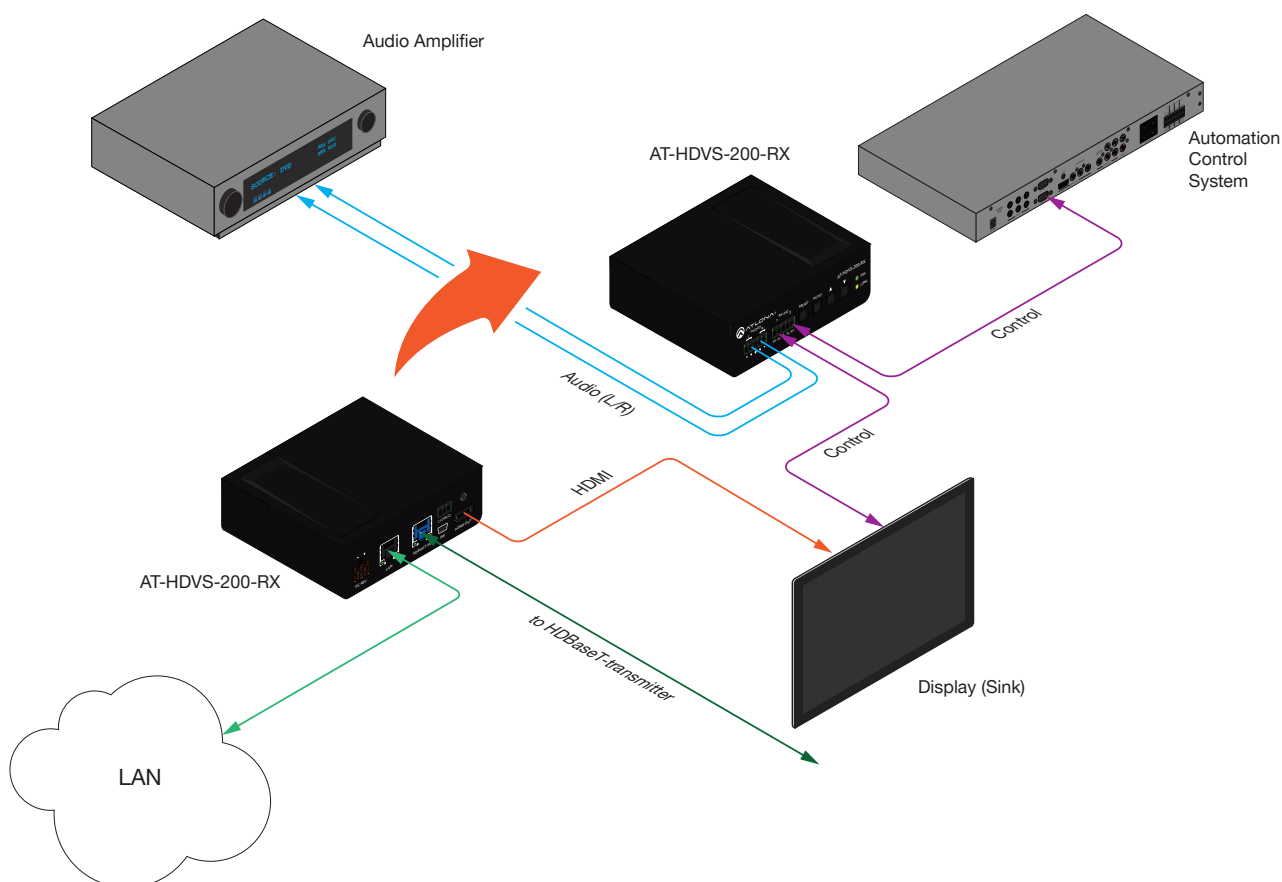
1. Insert the wires into the correct terminal on the included Phoenix block, as shown below.
2. Tighten the screws to secure the wires. Do not use high-torque devices as this may damage the screws and/or connector block.



Connection Instructions

1. Use an HDMI cable to connect an HDMI display to the **HDMI OUT** port on the unit.
2. Connect an Ethernet cable, up to 230 feet (70 meters), from the **HDBaseT IN** port on the unit to a PoE-compatible transmitter (not included). Ethernet cables should use EIA/TIA-568B termination.
3. Connect an Ethernet cable, up to 330 feet (100 meters), from the **LAN** port to the network.
4. Optionally connect the **RS-232 1** port to a display or other sink device. Connect the **RS-232 2** port to an automation control system.
5. Connect the included power supply to the **DC 48V** port.

Connection Diagram



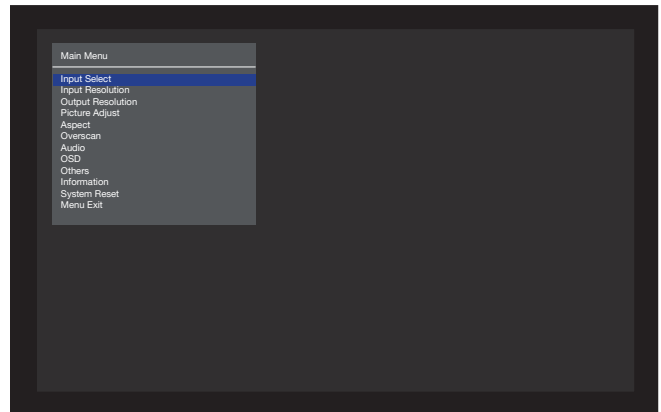
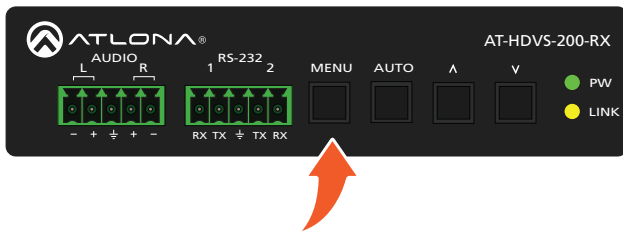
NOTE: The AT-HDVS-200-RX is designed to be used with the AT-HDVS-200-TX.

Menu System

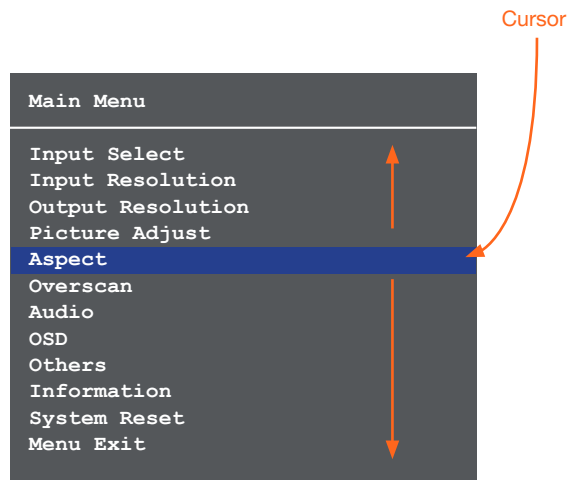
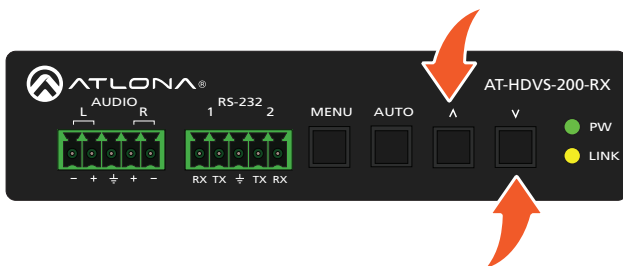
Accessing the On-Screen Display

The AT-HDVS-200-RX includes a built-in On-Screen Display (OSD) menu system to manage and control all video features.

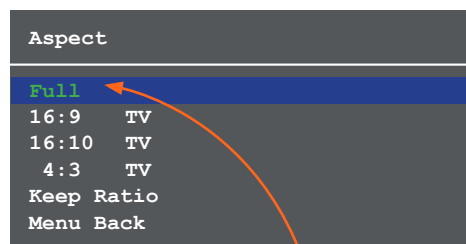
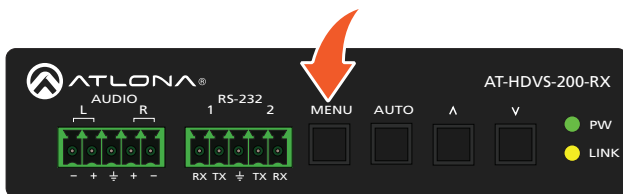
1. Press and release the **MENU** button to display the OSD.



2. Press the **UP/DN** buttons to highlight the various menu options. The currently selected menu item will be highlighted with a blue cursor bar. Press the **UP** button to move the cursor up through the menu system and press the **DN** button to move down.



3. Once the desired menu item is highlighted, press the **MENU** button to access its settings.



Within the menu item, the current setting will always be highlighted in green.

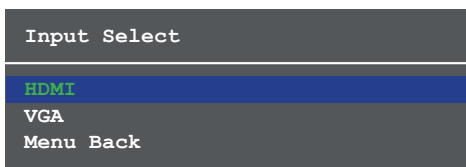
In this illustration, the **Aspect** menu item indicates that **Full** is the currently selected aspect ratio setting. Refer to [Aspect \(page 16\)](#) for more information.

Current setting

Input Select

Selects the desired input.

1. Under the **Main Menu**, highlight the **Input Select** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Input Select** menu will be displayed.
4. Press the **UP/DN** buttons to highlight the desired input.

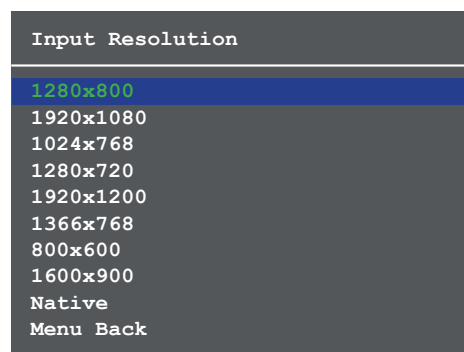
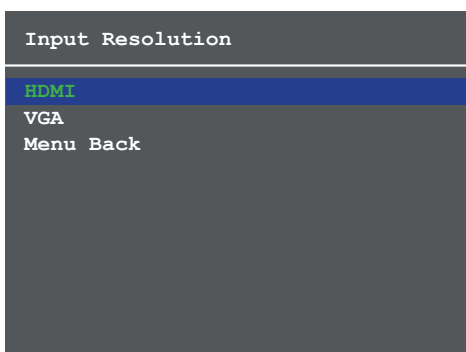


5. Press the **MENU** button to confirm the selection.
6. Press the **Menu Back** option to return to the **Main Menu**.

Input Resolution

Selects the desired input resolution.

1. Under the **Main Menu**, highlight the **Input Select** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Input Resolution** menu will be displayed.
4. Press the **UP/DN** buttons to highlight the desired input.
5. Press the **MENU** button to confirm the selection and display the list of available input resolutions.

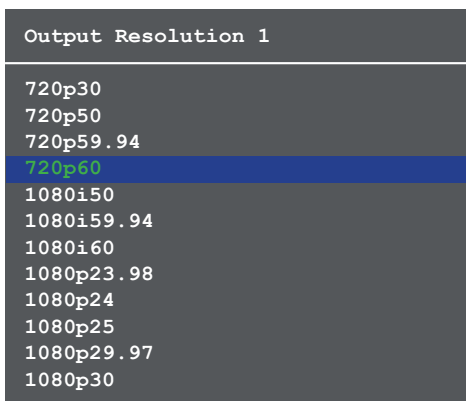


6. Press the **UP/DN** buttons to select the desired resolution.
7. Press the **MENU** button to confirm the selection.
8. Press the **Menu Back** option to return to the **Main Menu**.

Output Resolution

Selects the desired output resolution. The default output resolution is 720p (1280x720). The **Output Resolution** menu consists of three pages.

1. Under the **Main Menu**, highlight the **Output Resolution** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Output Resolution** menu will be displayed.
4. Press the **UP/DN** buttons to highlight the desired resolution.

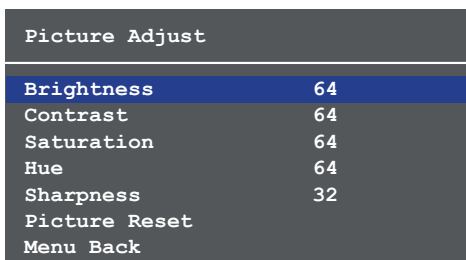


5. Press the **MENU** button to confirm the selection.
6. Scroll down and select the **Menu Back** option, under **Output Resolution 3**, then press the **MENU** button to return to the **Main Menu**.

Picture Adjust

Provides custom adjustment of picture brightness, contrast, saturation, hue, sharpness, and color space.

1. Under the **Main Menu**, highlight the **Output Resolution** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Picture Adjust** menu will be displayed.
4. Press the **UP/DN** buttons to highlight the desired option.

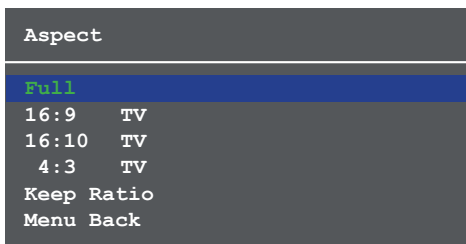


5. Press the **MENU** button to confirm the selection.
6. The current value will be highlighted in green and surrounded by brackets and two arrowheads.

Aspect

Allows the aspect ratio of the output image to be changed.

1. Under the **Main Menu**, highlight the **Output Resolution** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Aspect** menu will be displayed.
4. Press the **UP/DN** buttons to highlight the desired aspect ratio.
5. Press the **MENU** button to confirm the selection.



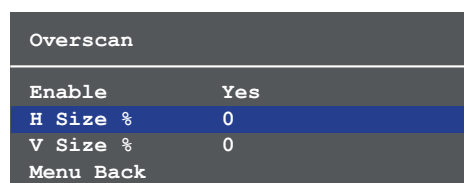
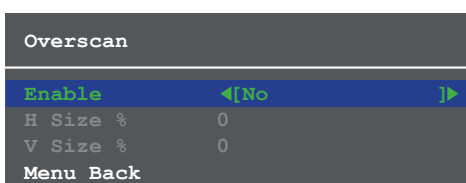
Setting	Description
Full	The output signal will be scaled to fill the screen.
16:9 TV	The output signal will be scaled to fit as 16:9.
16:10 TV	The output signal will be scaled to fit as 16:10.
4:3 TV	Output signal will be set to 4:3. If the input is HD, approximately 35% of the total horizontal resolution will be lost.
Keep Ratio	The input aspect ratio is preserved on the output.

6. Select the **Menu Back** option, then press the **MENU** button, to return to the **Main Menu**.

Overscan

Adjusts the overscan setting of the output video signal. By default, overscan is *disabled*.

1. Under the **Main Menu**, highlight the **Overscan** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Overscan** menu will be displayed.
4. Press the **UP/DN** buttons to highlight the **Enable** option.
5. Press the **MENU** button to change the **Enable** value



6. When overscan is *enabled*, the **H Size %** and **V Size %** fields can be adjusted. Press the **UP/DN** buttons to highlight the desired field.
7. Press the **MENU** button to select the field.
8. Press the **UP/DN** buttons to change the value. Press the **UP** button to *increase* the value; press the **DN** button to *decrease* the value.
9. Press the **MENU** button to confirm the change.
10. Highlight the **Menu Back** option, then press the **MENU** button to return to the **Main Menu**.

Audio

The Audio menu allows adjustment of all audio settings.

1. Under the **Main Menu**, highlight the **Audio** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Audio** menu will be displayed.

Audio	
HDMI Audio	Enable
L/R Audio	Enable
Mute	Off
Volume	0dB
Treble	0
Bass	0
Menu Back	

Setting	Description
HDMI Audio	Controls the HDMI audio, only. Set to Disable to mute the HDMI audio.
L/R Audio	Toggles the analog audio output Enable or Disable. Set to Disable to mute the analog audio output.
Mute	Provides muting of both HDMI and analog audio outputs. Set this value to Disable to mute all audio.
Volume	Controls the output volume. This value can be set from -80 dB to 0dB.
Treble	Set the amount of treble applied to the output. Both HDMI and analog audio are affected. This value can be set from -12 to +15.
Treble	Set the amount of bass applied to the output. Both HDMI and analog audio are affected. This value can be set from -12 to +15.

4. Press the **UP/DN** buttons to highlight the desired option.
5. Press the **MENU** button to confirm the selection. The current value will be highlighted in green and surrounded by brackets and two arrowheads.
7. Press the **UP/DN** buttons to select the desired value. Press the **UP** button to increase the value; press **DN** to decrease the value.
8. Press the **MENU** button to confirm the value.
9. Highlight the **Menu Back** option, then press the **MENU** button to return to the **Main Menu**.

OSD

Adjusts the appearance and position of the On-Screen Display (OSD) on the screen.

1. Under the **Main Menu**, highlight the **Audio** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button. The **OSD** menu will be displayed.
3. Press the **UP/DN** buttons to highlight the desired option.

OSD	
Position	Left Top
Transparency	12
Info. Timer	10
Menu Timer	20
Info. Display	Auto
Menu Display	Auto
Background	Grey
Menu Back	

Setting	Description
Position	Sets the position of the OSD on the display. The following options are available: <ul style="list-style-type: none"> • Left Top • Right Top • Right Bottom • Left Bottom • Center
Transparency	Adjusts the transparency setting of the OSD. <ul style="list-style-type: none"> • Range: 5 to 100
Info. Timer	The duration, in seconds, of how long the Info Display screen is displayed. <ul style="list-style-type: none"> • Range: 5 to 100
Menu Timer	The duration, in seconds, of how long the OSD remains on the screen, after no activity. <ul style="list-style-type: none"> • Range: 5 to 100
Info. Display	Adjusts the display settings of the Info Display screen, which indicates the input and output resolution. Refer to the illustration below for an example of the Info Display screen. The following options are available: <ul style="list-style-type: none"> • Auto - Automatically displays the Info Display screen when a change is made to the input or output signal. The screen will automatically be hidden after approximately five seconds. • Off - Prevents the Info Display screen from being displayed. • On - The Info Display screen is always displayed.
Menu Display	Controls the behavior of the main menu after the MENU button is pressed. <ul style="list-style-type: none"> • Auto - After the MENU button is pressed, the Main Menu will be displayed for the length of time, specified in the Menu Timer field. • On - Overrides the Menu Timer value. To exit the Main Menu, the Menu Exit option must be selected, within the Main Menu.

Setting	Description
Background	<p>Sets the background color of the OSD. The following options are available:</p> <ul style="list-style-type: none"> • Grey • Cyan • Magenta • Yellow

4. Press the **MENU** button to confirm the selection.
5. The current value will be highlighted in green and surrounded by brackets and two arrowheads.
6. Press the **UP/DN** buttons to change the value. For settings that contain a value, press the **UP** button to *increase* the value; press the **DN** button to *decrease* the value.
7. Press the **MENU** button to confirm the change.
8. Highlight the **Menu Back** option, then press the **MENU** button to return to the **Main Menu**.

Others

This menu provides control for various other settings, such as auto-switching, HDCP, and vertical mirroring.

1. Under the **Main Menu**, highlight the **Others** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button. The **Others** menu will be displayed.
3. Press the **UP/DN** buttons to highlight the desired option.

Others		
Display HDCP	Compliant	
In Auto Switch	On	
VGA Auto Adjust		
Mirror-V	Off	
ASP Background	Grey	
Menu Back		

OSD	
Position	Left Top
Transparency	12
Info. Timer	10
Menu Timer	20
Info. Display	Auto
Menu Display	Auto
Background	Grey
Menu Back	

Setting	Description
Display HDCP	<p>Provides control over the transmission of HDCP content for the HDMI IN port on the transmitter (TX). The following options are available:</p> <ul style="list-style-type: none"> • Compliant - Reports to the source that the AT-HDVS-200-RX is an HDCP-compliant sink device. • Noncompliant - Reports to the source that the AT-HDVS-200-RX is an HDCP-compliant sink device. • 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. <p>NOTE: Some source devices will enable HDCP if an HDCP-compliant display (sink) is detected. However, there may be applications where sending HDCP content is not desired. This feature does not provide decryption of HDCP content to non-HDCP sink devices</p>

Setting	Description
In Auto Switch	Enables or disables auto-switching. The following options are available: <ul style="list-style-type: none"> • On - Enables auto-switching. • Off - Disables auto-switching.
VGA Auto Adjust	Automatically tunes the phase and clock of the VGA signal.
Mirror-V	Vertically flips the output signal. The default setting is Off. The following options are available: <ul style="list-style-type: none"> • On - Vertically flips the output image. • Off - The output image is unaltered.
ASP Background	Changes the color of background bars when changing the aspect ratio of the output image. The default color is Black. The following options are available: <ul style="list-style-type: none"> • Black • Grey

Information

The **Information** menu displays current information about the AT-HDVS-200-RX. The **Information** menu consists of two pages. None of the fields within this menu can be edited.

1. Under the **Main Menu**, highlight the **Information** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **Information** menu will be displayed.
4. Press and release the **MENU** button to view the next two pages.
5. Press the **MENU** button again to return to the **Main Menu**.

```

Information
-----
Source  HDMI
  Name  Intel
  Product  9xxxx

  Sink  HDMI VSC
  Model  VA2465 SERIES
  Native1  1920x1200
  Native2  None
-----
F/W Ver
MCU TX:v1.1.17    RX:v1.1.17
HDBT 1.30.92.1    1.31.31.5
Next Page
    
```



```

Information
-----
Source Detection
HV Total      1344x806
HV Display    1024x768
HV Polarity   Neg / Neg
Scan Mode     Progressive
Type          HDMI   -Audio-
HDCP          No      Type LPCM
Clock         On      SR 48K
Sync          On      FIFO OK
Identity      1024x768p60
Next Page
    
```



```

Information
-----
IP Address
TX: 192.168.1.117
RX: 192.168.1.123
Menu Back
    
```

Setting	Description
Source	The current input source that is displayed. The source will be displayed as HDMI or VGA.
Name	The name of the source, if available.
Product	The product name, if available.
Sink	Contains the manufacturer's abbreviation of the sink.
Model	Displays the model of the display.
Native1	The native (preferred) timing for the display.
Native2	Displays any detailed (alternate) timing information for the display.
MCU TX / RX	Indicates the firmware version of both the transmitter (TX) and receiver (RX). If the TX is not connected, then "Unknown" will be listed next to the TX field.
HDBT	Displays the version of HDBaseT on the transmitter and the receiver.
HV Total	The total number of horizontal and vertical pixels.
HV Display	The display resolution.
HV Polarity	Polarity of both the horizontal and vertical sync pulse.
Scan Mode	The scan mode - either progressive or interlaced.
Type	The type of video signal.
HDCP	Indicates whether or not if HDCP content is present.
Clock	Indicates whether the source status of the TMDS clock is detected (On) or has been lost (Off).
Sync	Indicates whether the source status of the TMDS sync is detected (On) or has been lost (Off).
Identity	Displays the detected resolution of the source.
Type (Audio)	Displays the audio format.
SR (Audio)	Displays the sampling rate of the audio signal.
FIFO (Audio)	Displays the status of the FIFO audio buffer.
TX	The IP address of the transmitter.
RX	The IP address of the receiver.

System Setup

The **System Reset** menu provides the ability to reset the AT-HDVS-200-RX to factory-default settings.

1. Under the **Main Menu**, highlight the **System Reset** menu item using the **UP/DN** buttons on the front panel.
2. Press the **MENU** button.
3. The **System Setup** menu will be displayed.

System Setup	
Factory Reset	No
MCU F/W Update	No
HDBT F/W Update	No
Menu Back	

4. Press the **UP/DN** buttons to highlight the desired option.
5. Press the **MENU** button to confirm the selection.
6. Highlight the **Menu Back** option, then press the **MENU** button to return to the **Main Menu**.

Setting	Description
Factory Reset	Resets the AT-HDVS-200-RX to factory-default settings. The following options are available: <ul style="list-style-type: none"> • No - Cancels the factory-reset procedure. • Yes - Proceeds with the factory-reset procedure.
MCU F/W Update	This options allows the firmware to be updated. After selecting this item, use one of the following options: <ul style="list-style-type: none"> • No - Cancels the update procedure. • Yes - Proceeds with the update procedure.
HDBT F/W Update	This options allows the HDBaseT firmware to be updated. After selecting this item, use one of the following options: <ul style="list-style-type: none"> • No - Cancels the update procedure. • Yes - Proceeds with the update procedure.

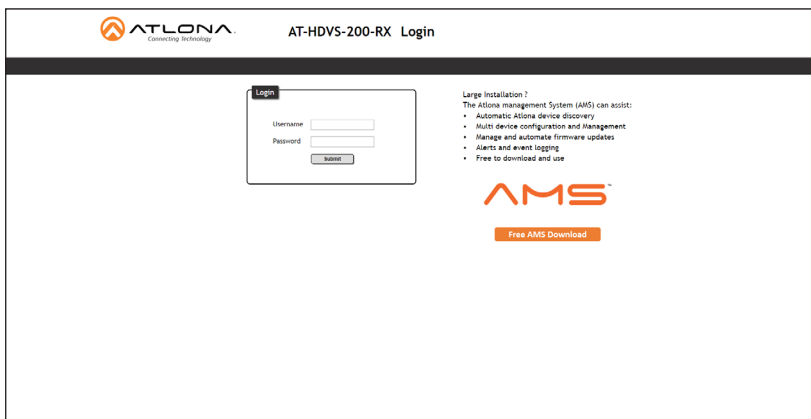
The Web GUI

Introduction to the Web GUI

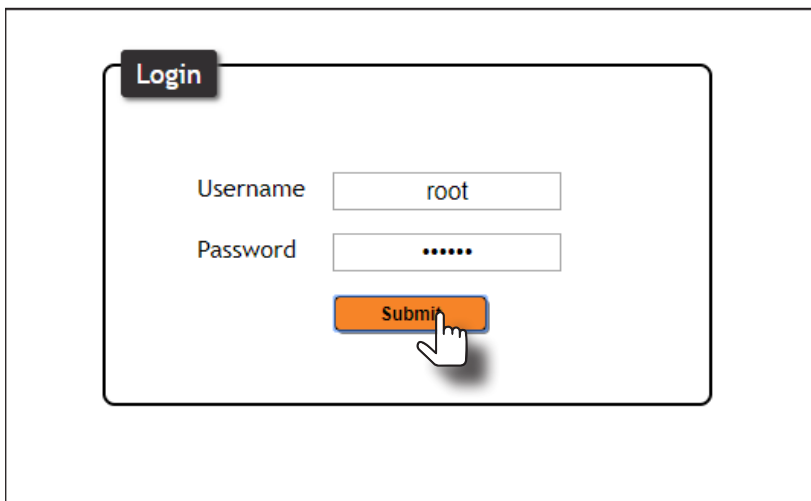
The AT-HDVS-200-RX includes a built-in web GUI. Atlona recommends that the web GUI be used to set up the AT-HDVS-200-RX, as it provides intuitive management of all features.

The AT-HDVS-200-RX 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-RX. If a DHCP server is not available or if a static IP address is desired, it can be assigned using the **IPStatic** command or through the **System page (page 33)** of the web GUI. The default static IP address of the AT-HDVS-200-RX is 192.168.1.254.

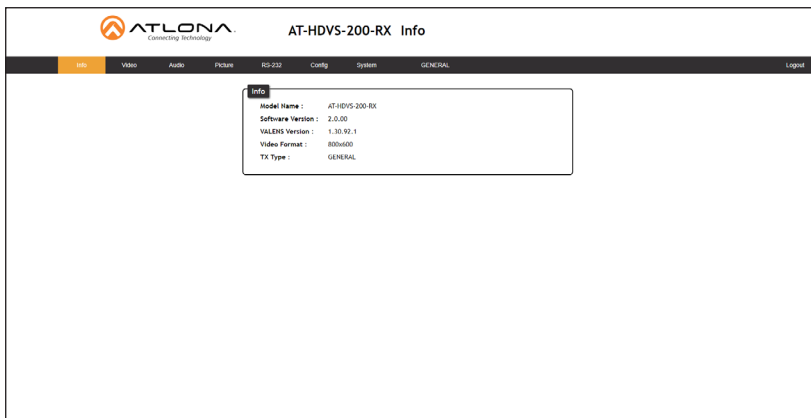
1. Launch a web browser.
2. In the address bar, type the IP address of the AT-HDVS-200-RX.
3. The **Login** page will be displayed.



4. Type root, using lower-case characters, in the **Username** field.
5. Type Atlona in the **Password** field. 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 18)** for more information.
6. Click the **Submit** button or press the ENTER key on the keyboard.

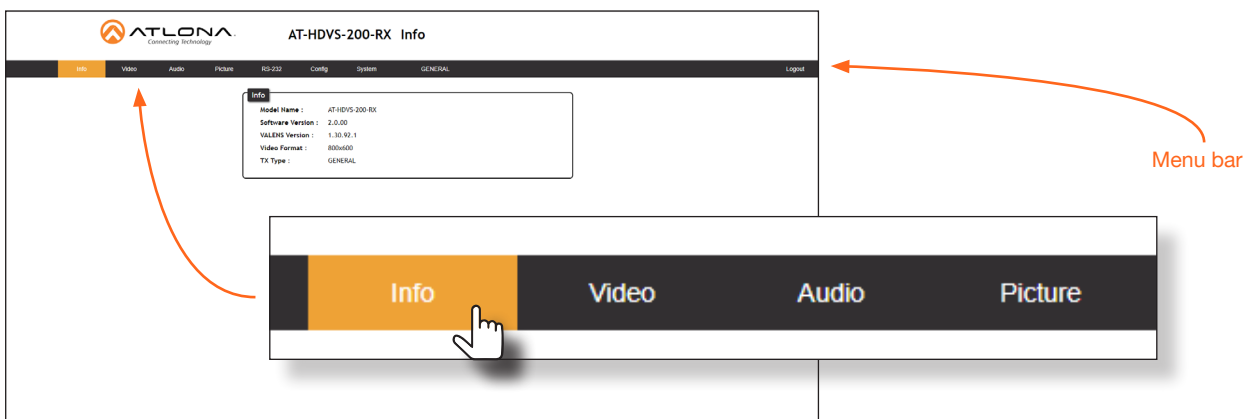


7. The **Info** page will be displayed.

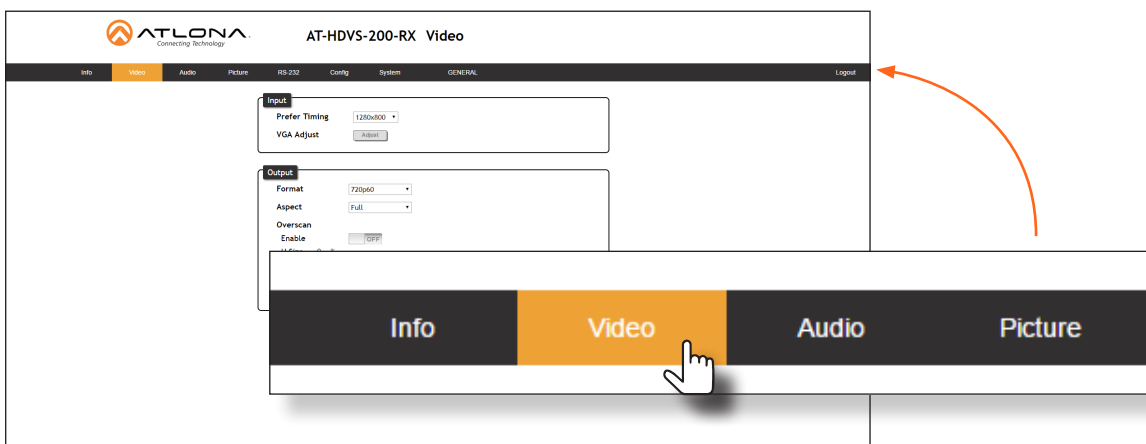


Menu Bar

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.

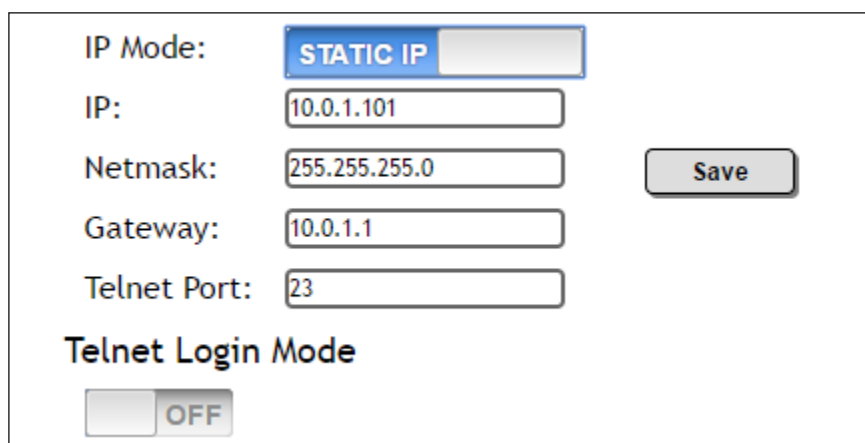


In this example, clicking **Video**, in the menu bar, will display the **Video** page.



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.



IP Mode: **STATIC IP**

IP: 10.0.1.101

Netmask: 255.255.255.0

Gateway: 10.0.1.1

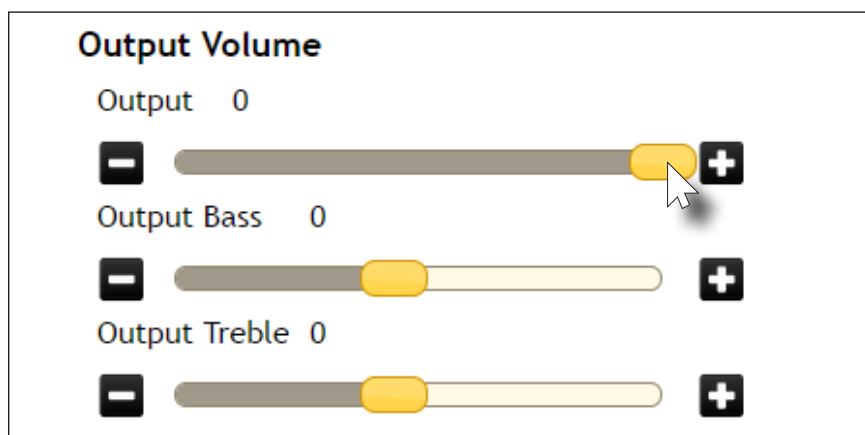
Telnet Port: 23

Telnet Login Mode

OFF

Sliders

Click and drag slider controls to change their value.



Output Volume

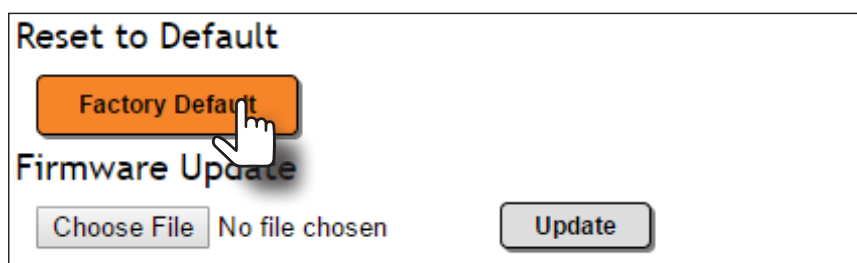
Output 0

Output Bass 0

Output Treble 0

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-RX to factory-default settings.



Reset to Default

Factory Default

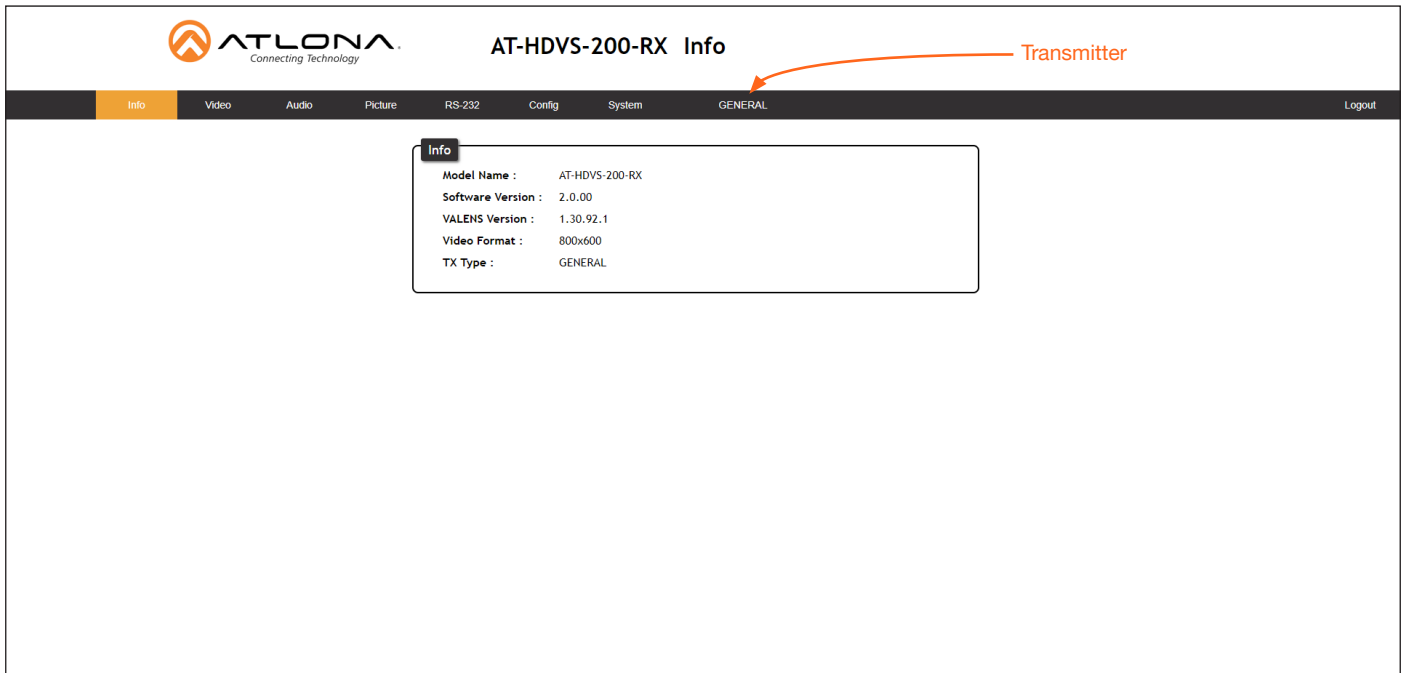
Firmware Update

Choose File No file chosen

Update

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-RX is running. Always make sure to check the AT-HDVS-200-RX 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

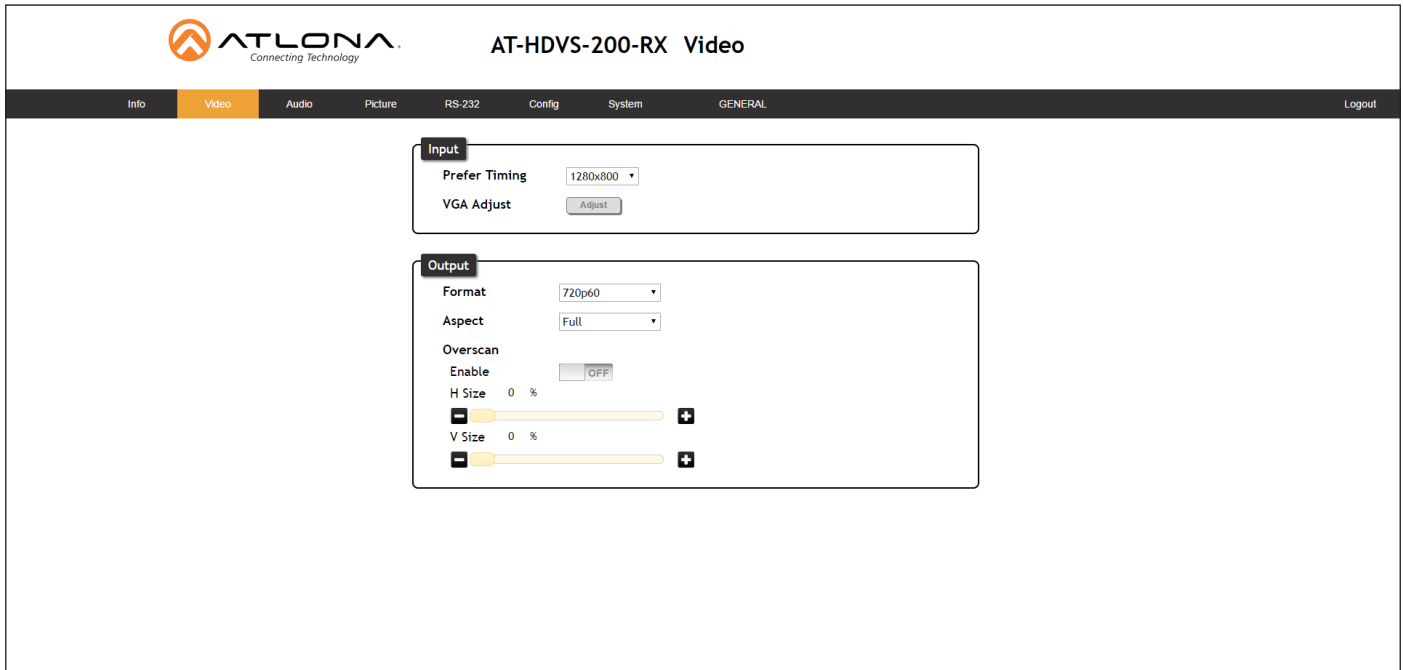
The version of the boot loader.

GENERAL

If the web GUI is accessed without a transmitter attached, this tab will be labeled as “GENERAL”. However, if another device is connected to the AT-HDVS-200-RX, such as the AT-HDVS-200-TX (using the **HDBaseT** port), this tab will change to the name of that device and act as a hyperlink to open that web GUI.

Video page

The **Video** page is divided into two sections: **Input** and **Output**. The **Input** section allows the preferred input timing to be selected as well as a button to perform an auto-adjust of the VGA signal at the transmitter. The **Output** section provides options to control the output resolution, aspect ratio, and overscan.



Input

Prefer Timing (HDMI)

Click this drop-down list to select the desired input timing.

Available Input Timings		
800x600	1024x768	1280x720
1280x800	1366x768	1600x900
1920x1080	1920x1200	Native

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.

Output

Format

Click this drop-down list to select the desired output timing.

Output Resolutions			
800x600	1024x768	1280x800	1280x1024
1366x768	1400x105	1600x900	1600x1200

Output Resolutions			
1680x1050	1920x1200	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			

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.

Overscan

In most situations, adjusting overscan will not be necessary. To adjust the overscan, click the **Enable** toggle to the ON setting. Click and drag the *slider* controls to adjust the horizontal and vertical size. The **Enable** toggle must remain in the ON position, in order for the overscan to be applied. To disable overscan, click the **Enable** toggle to the OFF position.

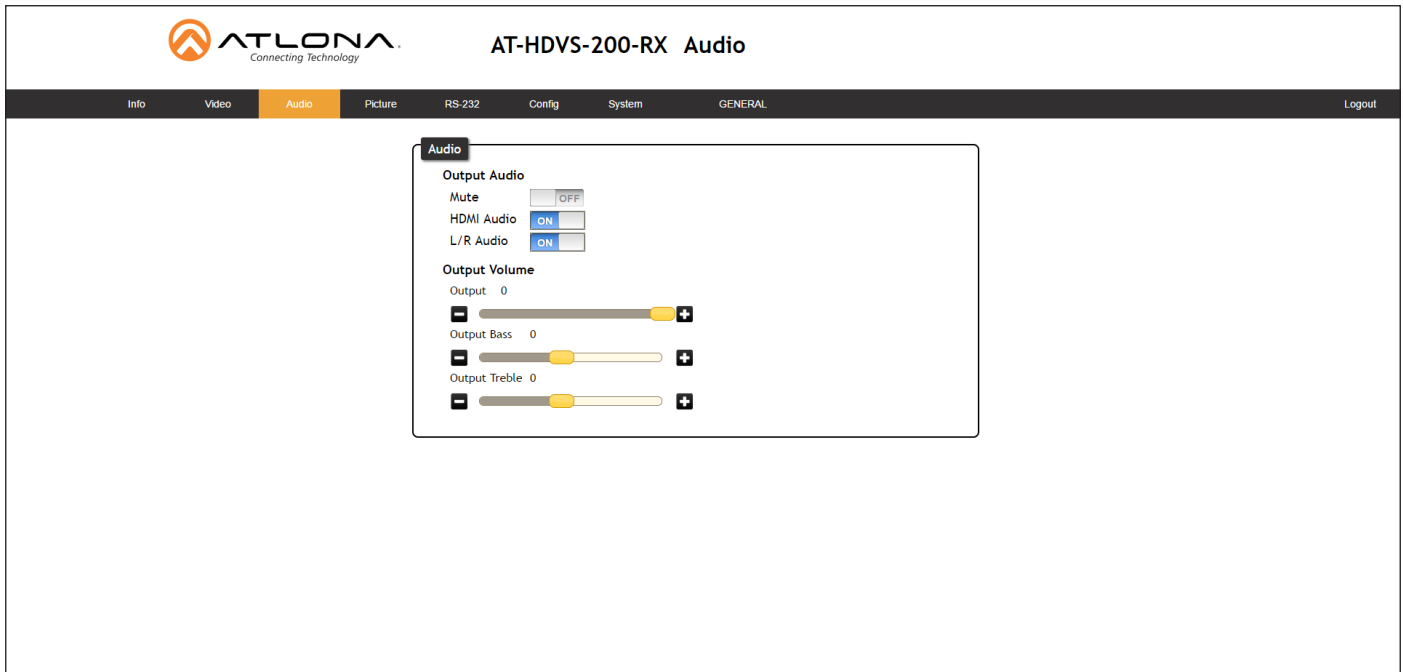
H Size

Adjust the horizontal scaling of the output image.

V Size

Adjust the vertical scaling of the output image.

Audio page



Mute

Click this toggle button to the ON setting to mute audio on both the HDMI and analog audio outputs.

HDMI Audio

Click this toggle button to the ON setting to mute *only* the HDMI audio on the output. Analog audio is preserved.

L/R Audio

Click this toggle button to the ON setting to mute *only* the analog audio on the output. HDMI audio is preserved.

Output Volume

Click and drag the Output slider control to adjust the output volume. Range: -80 to 0.

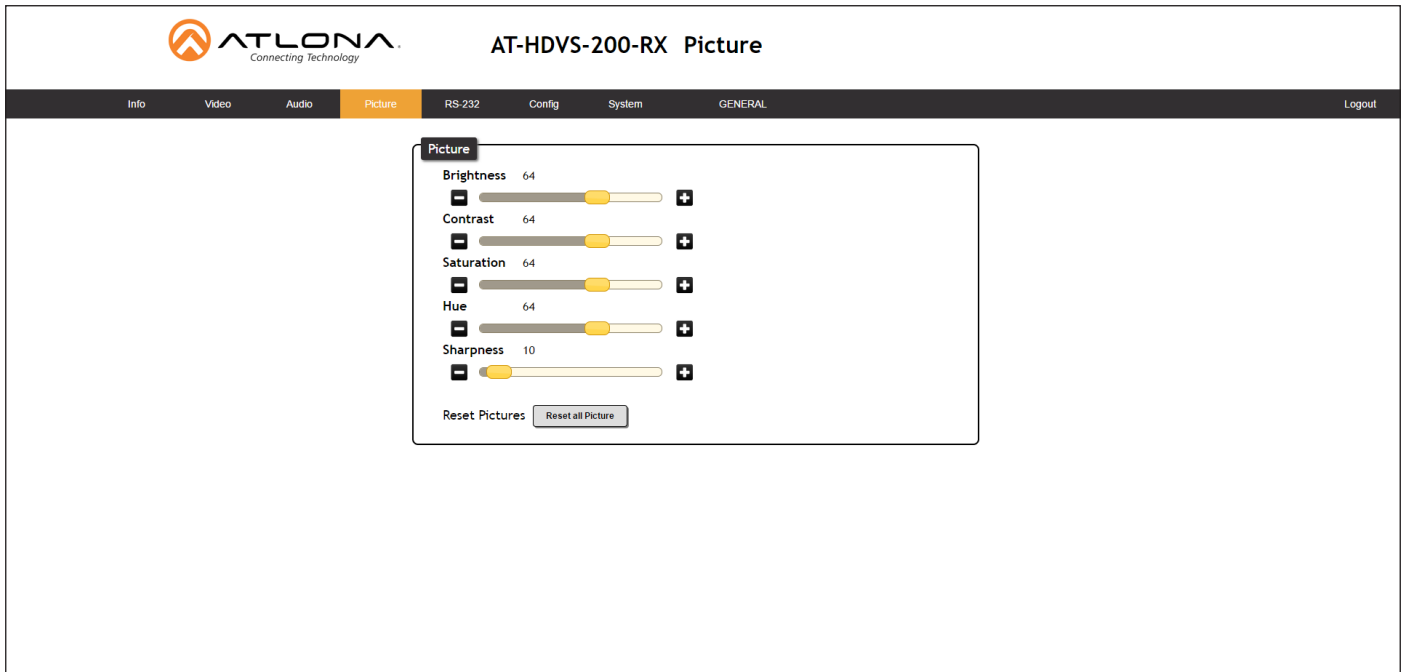
Output Bass

Click and drag the Output Bass slider control to adjust the amount of bass applied to the audio output. Range: -12 to 15.

Output Treble

Click and drag this slider control to adjust the amount of treble applied to the audio output. Range: -12 to 15.

Picture page



Brightness

Adjusts the brightness setting of the output signal. Range: 0 to 100

Contrast

Adjusts the contrast setting of the output signal. Contrast is the difference between the lightest and darkest area of an image. Range: 0 to 100

Saturation

Adjusts the color saturation of the output signal. Range: 0 to 100

Hue

Adjusts the hue of the output signal. Range: 0 to 100

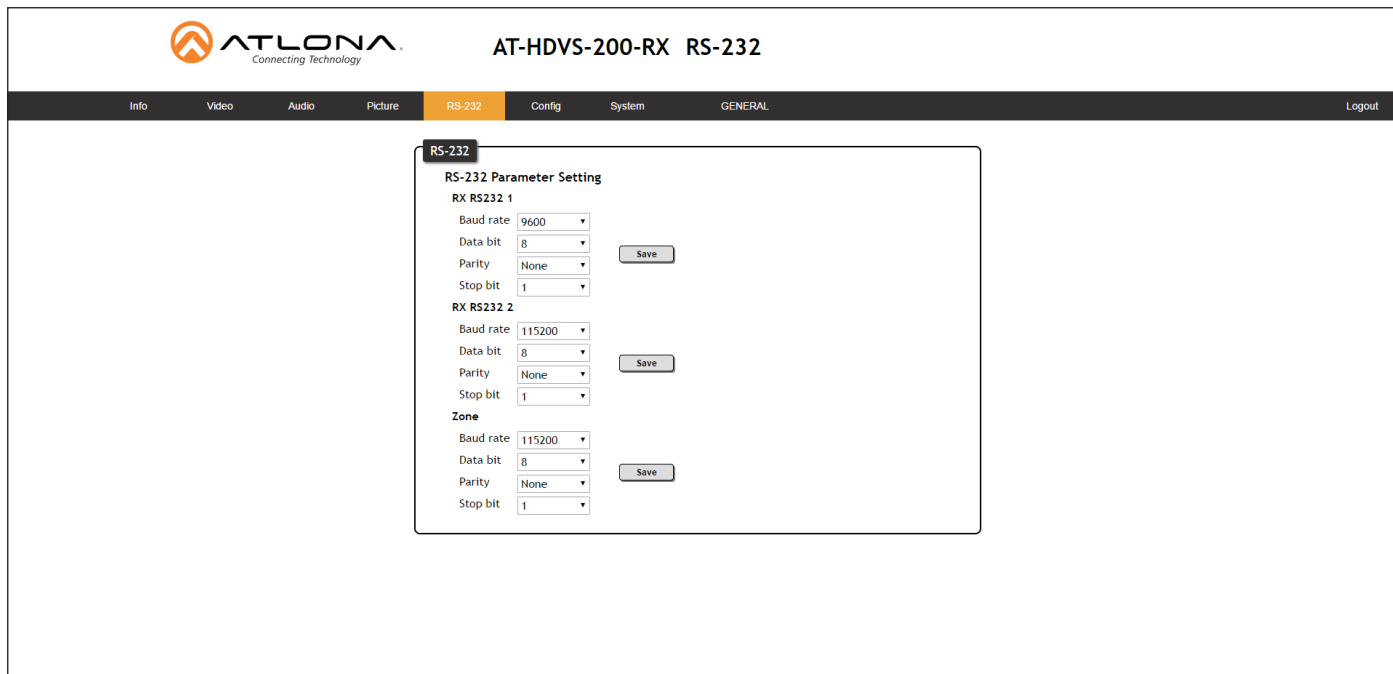
Sharpness

Adjusts the sharpness of the output signal. Range: 0 to 100

Reset Pictures

Click this button to reset the above picture settings to their factory-default settings.

RS-232 page



RX RS232 1 / 2

The AT-HDVS-200-RX provides two RS-232 ports. Each port can be configured separately using the appropriate drop-down list. The available values/settings for each drop-down list are the same for both ports. Click the **Save** button, next to each set of drop-down lists, 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.

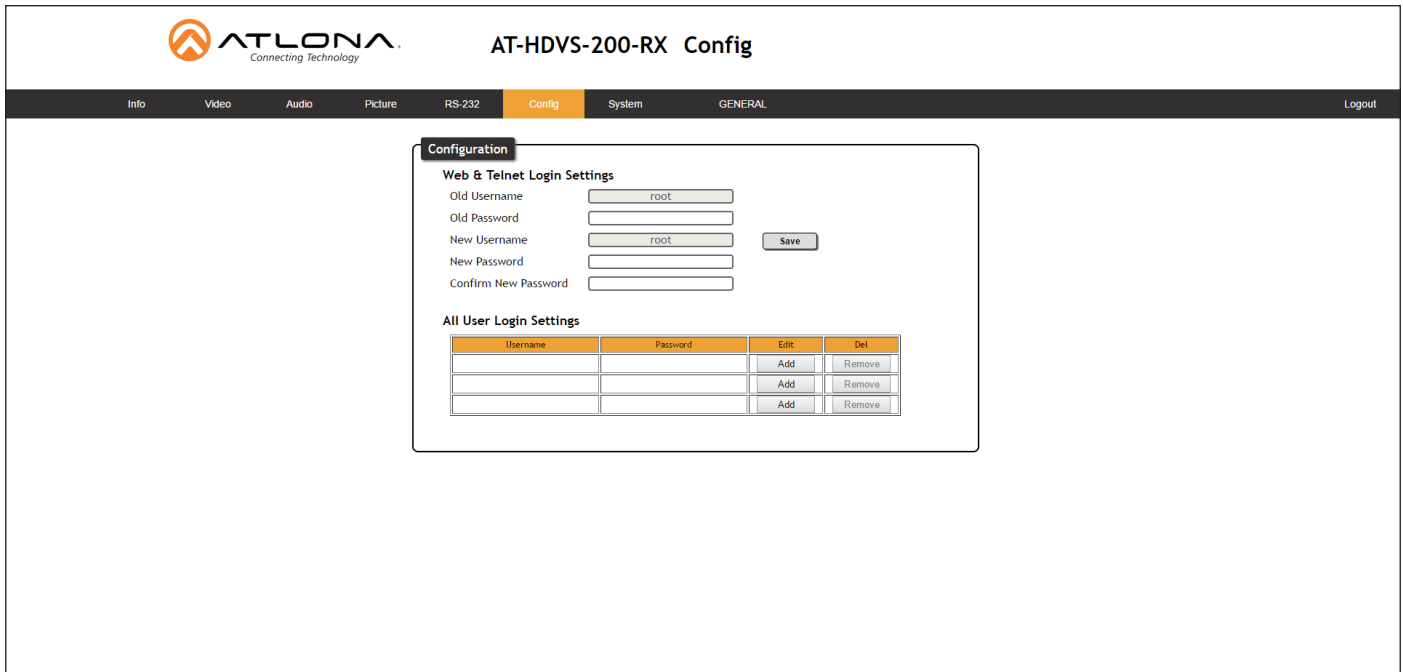
Zone

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

If the AT-HDVS-200-RX 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 port on the corresponding device.

The available settings for each drop-down list can be found in the table, above. Click the **Save** button, next to the **Zone** settings, to save the settings.

Config page



The screenshot shows the AT-HDVS-200-RX Config page. The top navigation bar includes tabs for Info, Video, Audio, Picture, RS-232, Config (selected), System, GENERAL, and Logout. The main content area is titled 'Configuration' and contains two sections:

Web & Telnet Login Settings

Old Username:
 Old Password:
 New Username:
 New Password:
 Confirm New Password:

All User Login Settings

Username	Password	Edit	Del
		<input type="button" value="Add"/>	<input type="button" value="Remove"/>
		<input type="button" value="Add"/>	<input type="button" value="Remove"/>
		<input type="button" value="Add"/>	<input type="button" value="Remove"/>

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 for 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



Relay

Control

Click this radio button to select the behavior of the relays. Each relay has two states: normally open (NO) and normally closed (NC).

- **Follow Display Status**
Relays will switch based on the
- **Manual**
Relays can be triggered manually using the web GUI or using the **RelayAct** and **RelayAuto** commands.

Relay 1

Click this toggle button to set Relay 1 to OPEN (NO) or CLOSE (NC).

Relay 2

Click this toggle button to set Relay 2 to OPEN (NO) or CLOSE (NC).

System

IP Mode

Click this toggle to set the IP mode of the AT-HDVS-200-RX. By default, the AT-HDVS-200-RX is set to DHCP mode.

IP

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

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-RX 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.

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-RX 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-RX. Once the firmware file is selected, click the **Update** button. Refer to [Updating the Firmware \(page 53\)](#) 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-RX. Once the firmware file is selected, click the **Update** button.

Commands

The following tables provide an alphabetical list of commands available on the AT-HDVS-200-RX. 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
Aspect	Sets the aspect ratio of the output signal
Bass	Increases / decreases the amount of bass on the output
Blink	Enables or disables blinking of the DN button on the front panel
Broadcast	Enables / disables broadcast mode
BRT	Sets the picture brightness
CSpara	Sets the baud rate, data bits, stop bits, and parity for the RS-232 2 port
CTRST	Sets the picture contrast
HDBTRS232	Sets the baud rate, data bits, parity bit, and stop bits for the HDBaseT IN port.
HDCPSet	Sets the HDCP reporting mode for the HDMI input on the transmitter
HDMIAUD	Enables / disables audio on the HDMI output
help	Displays the list of available commands
HUE	Sets the picture hue
HZoom	Sets the horizontal overscan setting for the output image
Input	Sets the active input
IPAddUser	Adds a user for Telnet control
IPCFG	Displays the current network settings for the AT-HDVS-200-RX
IPDelUser	Deletes the specified Telnet user
IPDHCP	Enables / disables DHCP mode on the AT-HDVS-200-RX
IPLogin	Enables / disables login credentials when starting a Telnet session
IPPort	Sets the Telnet listening port for the AT-HDVS-200-RX
IPStatic	Sets the static IP address, subnet mask, and gateway for the AT-HDVS-200-RX
IPTimeout	Specifies the time interval of inactivity before the Telnet session is closed
KitMode	Displays the model information and the IP address of the transmitter
Mreset	Resets the AT-HDVS-200-RX to factory-default settings
PictureRst	Resets all picture settings
PrefTimg	Sets the preferred HDMI input timing

Command	Description
RelayAct	Configures the specified relay port
RelayAuto	Sets the state of the specified relay
RS232para	Sets the baud rate, data bits, stop bits, and parity for the RS-232 1 port
RS232zone	Send a command to the display device
SATRT	Sets the picture color saturation
SHARP	Sets the picture sharpness
System	Displays system information about the AT-HDVS-200-RX
TREBLE	Increases / decreases the treble on the output
Type	Displays model information
Version	Displays the current firmware version of the AT-HDVS-200-RX
VidOutRes	Sets the video output resolution
VOUT	Increases / decreases the audio volume
VOUTMute	Mutes / unmutes the audio
VZoom	Adjusts the vertical zoom (overscan) of the output image
Zoom	Enables / disables overscan

Aspect

Sets the aspect ratio of the output signal. The default setting is **Full**.

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

Bass

Increases / 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. on = enables **DN** button blinking; off = disables **DN** button blinking; sta = displays the current Blink 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 / 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 Broadcast 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
```

CSpara

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232 2** port on the AT-HDVS-200-RX. Use this port to control the AT-HDVS-200-RX. Each argument must be separated by a comma; no spaces are permitted. Brackets must be used when typing this command. Use the `sta` argument to display the current serial port settings.

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]
```

CTRST

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

Syntax

```
CTRST X
```

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

Example

```
CTRST 65
```

Feedback

```
CTRST 65
```

HDBTRS232

Sets the baud rate, data bits, parity bit, and stop bits for the **HDBaseT IN** port. 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

```
HDBTRS232[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

```
HDBTRS232[115200,8,0,1]
```

Feedback

```
HDBTRS232[115200,8,0,1]
```

HDCPSet

Set the HDCP reporting mode of the **HDMI IN** port on the transmitter. Some computers will send HDCP content if an HDCP-compliant display is detected. Setting this value to off, will report to the source device that the AT-HDVS-200-RX is not an HDCP-compliant device. This allows the source to transmit non-HDCP content to the sink. Setting this value to off will *not* decrypt HDCP content. `on` = enables HDCP detection; `off` = disables HDCP detection; `sta` = displays the current HDCPSet setting.

Syntax

```
HDCPSet X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

```
HDCPSet on
```

Feedback

```
HDCPSet on
```


HDMIAUD

Enables / 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

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:

Aspect
HDMIAUD
RS232para
RS232zone
HDCPSet
Version
Input
VidOutRes
Zoom
HZoom
...
...

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
```

HZoom

Set the horizontal zoom for the output image. Use the sta argument to display the current HZoom value.

Syntax

```
HZoom X
```

Parameter	Description	Range
X	Value	0 ... 50, sta

Example

```
HZoom 10
```

Feedback

```
HZoom 10
```

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 HDMI argument and the input number. Use the sta argument to display the currently active input.

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 \(page 32\)](#) 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-RX.

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 \(page 32\)](#) 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 / disables DHCP mode on the AT-HDVS-200-RX. on = enables DHCP mode; off = disables DHCP mode; sta = displays the current IPDHCP setting. If this feature is disabled, then a static IP address must be specified for the AT-HDVS-200-RX. 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 / disables the use of login credentials when starting a Telnet session on the AT-HDVS-200-RX. If this feature is set to on, then the AT-HDVS-200-RX 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 IPLogin 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-RX. 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-RX. Before using this command, DHCP must be disabled on the AT-HDVS-200-RX. 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
```

KitMode

Displays the model information and the IP address of the transmitter. The sta argument must be specified.

Syntax

```
KitMode X
```

Parameter	Description	Range
X	Value	sta

Example

```
KitMode sta
```

Feedback

```
AT-HDVS-200-TX IP:10.0.1.161
```

Mreset

Resets the AT-HDVS-200-RX 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 = 1280x720
1 = 1920x1080
2 = 1024x768
3 = 1280x720
```

```
4 = 1920x1200
5 = 1366x768
6 = 800x600
7 = 1600x900
8 = Native
```

Example

```
PrefTimg 3
```

Feedback

```
PrefTimg 3
```

RelayAct

Configures the specified relay port. For the second argument, on = opens the relay, close = closes the relay; sta = displays the current state of the **RelayAct** setting.

Syntax

```
Relay X Y
```

Parameter	Description	Range
X	Relay	1 ... 2
Y	State	open, close, sta

Example

```
RelayAct 1 open
```

Feedback

```
RelayAct 1 open
```

RelayAuto

Sets the state of the specified relay. on = enables overscan; off = disables overscan; ? = displays the current **RelayAuto** setting.

Syntax

```
WP_OverscanEn[X]
```

Parameter	Description	Range
X	Value	On, Off, ?

Example

```
WP_OverscanEn[On]
```

Feedback

```
WP_OverscanEn[On]
```

RS232para

Sets the baud rate, data bits, parity bit, and stop bits for the **RS-232 1** port on the AT-HDVS-200-RX. This port is used to send commands to the connected display. 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 specifying the command to be sent. The command line string must not contain any spaces.

Syntax

```
RS232zone[X]
```

Parameter	Description	Range
X	Command	String

Example

```
RS232zone[command]
```

Feedback

```
RS232zone[command]
```


SATRT

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

Syntax

```
SATRT X
```

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

Example
SATRT 50

Feedback
SATRT 50

SHARP

Sets the picture sharpness. Use the sta argument to display the current SHARP 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-RX. The sta argument must be specified.

Syntax

```
System X
```

Parameter	Description	Range
X	Status	sta

Example
System sta

Feedback
 Model: AT-HDVS-200-RX
 MAC Addr: b8-98-b0-00-36-a6
 Address Type: DHCP
 IP Addr: 10.0.1.65
 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 01:12:47

TREBLE

Increases / 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
```

Type

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

Syntax

```
Type
```

This command does not require any parameters

Example

```
Type
```

Feedback

```
AT-HDVS-200-RX
```

Version

Displays the firmware version of the AT-HDVS-200-RX. No spaces must exist between the command and the argument. MCU = displays the microprocessor firmware, VSRX = displays the Valens firmware.

Syntax

```
VersionX
```

Parameter	Description	Range
X	Value	MCU, VSRX

Example

```
VersionMCU
```

Feedback

```
V1.1.28
```

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	14 = 720p59
1 = 1024x768	15 = 720p60
2 = 1280x800	16 = 1080i50
3 = 1280x1024	17 = 1080i59.94
4 = 1366x768	18 = 1080i60
5 = 1400x1050	19 = 1080p23.98
6 = 1600x900	20 = 1080p24
7 = 1600x1200	21 = 1080p25
8 = 1680x1050	22 = 1080p29.97
9 = 1920x1200	23 = 1080p30
10 = 720p25	24 = 1080p50
11 = 720p29.97	25 = 1080p59.94
12 = 720p30	26 = 1080p60
13 = 720p50	27 = Input
	28 = Native

Example
VidOutRes 26

Feedback
VidOutRes 26

VOUT

Increases / 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 ... 6

Example
VOUT 4
VOUT +

Feedback
VOUT 4
VOUT 5

VOUTMute

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

Syntax

```
VOUTMute X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

VOUTMute on

Feedback

VOUTMute on

VZoom

Adjusts the vertical zoom (overscan) of the output image. Use the sta argument to display the current **VZoom** setting.

Syntax

```
VZoom X
```

Parameter	Description	Range
X	Value	0 ... 50, sta

Example

VZoom 10

Feedback

VZoom 10

Zoom

Enables / disables overscan. on = enables overscan; off = disables overscan; sta = displays the current **Zoom** setting.

Syntax

```
Zoom X
```

Parameter	Description	Range
X	Value	on, off, sta

Example

Zoom on

Feedback

Zoom on

Appendix

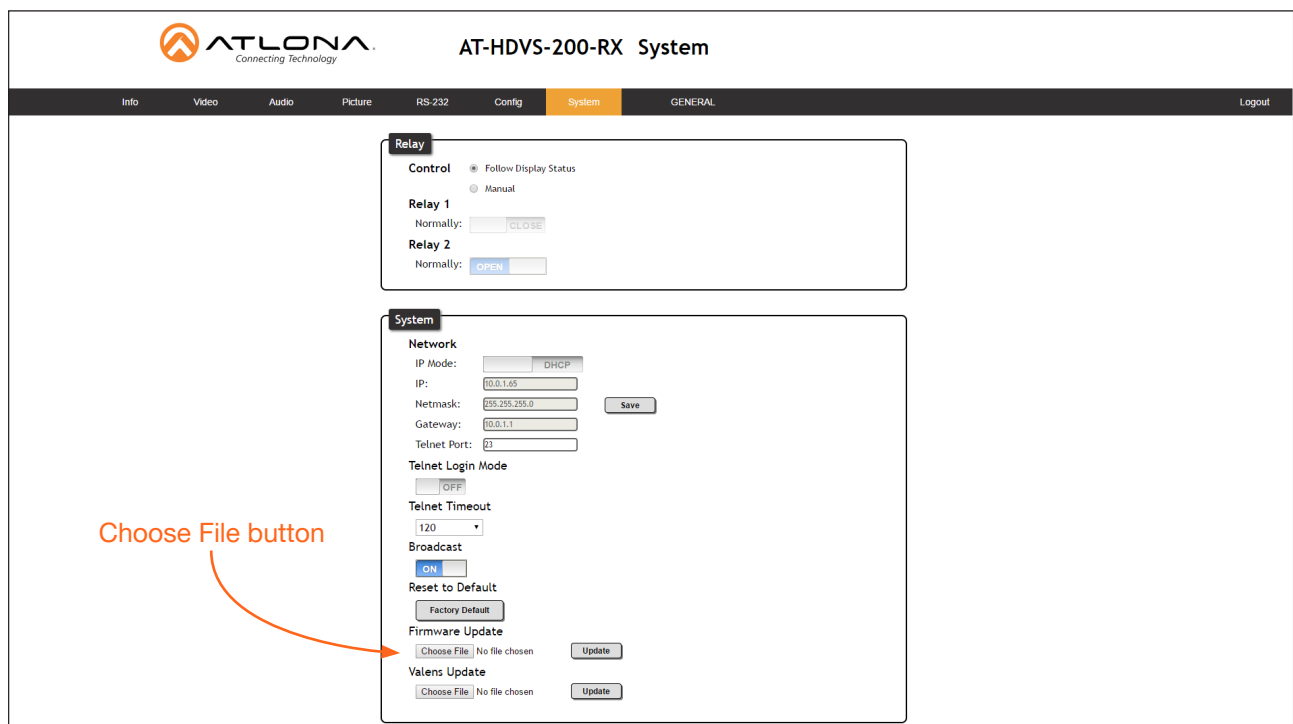
Updating the Firmware

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-RX firmware can be updated using a USB-A to USB mini-B cable

Using the Web GUI

Requirements

- AT-HDVS-200-RX
 - Firmware file
 - Computer
1. Connect an Ethernet cable from the computer, containing the firmware, to the same network where the AT-HDVS-200-RX is connected.
 2. Go to the [System page \(page 33\)](#) in the web GUI.



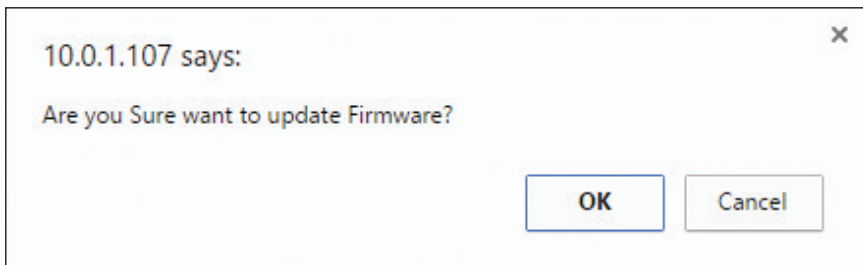
3. Click the **Choose File** button, under the **Firmware Update** section.



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.

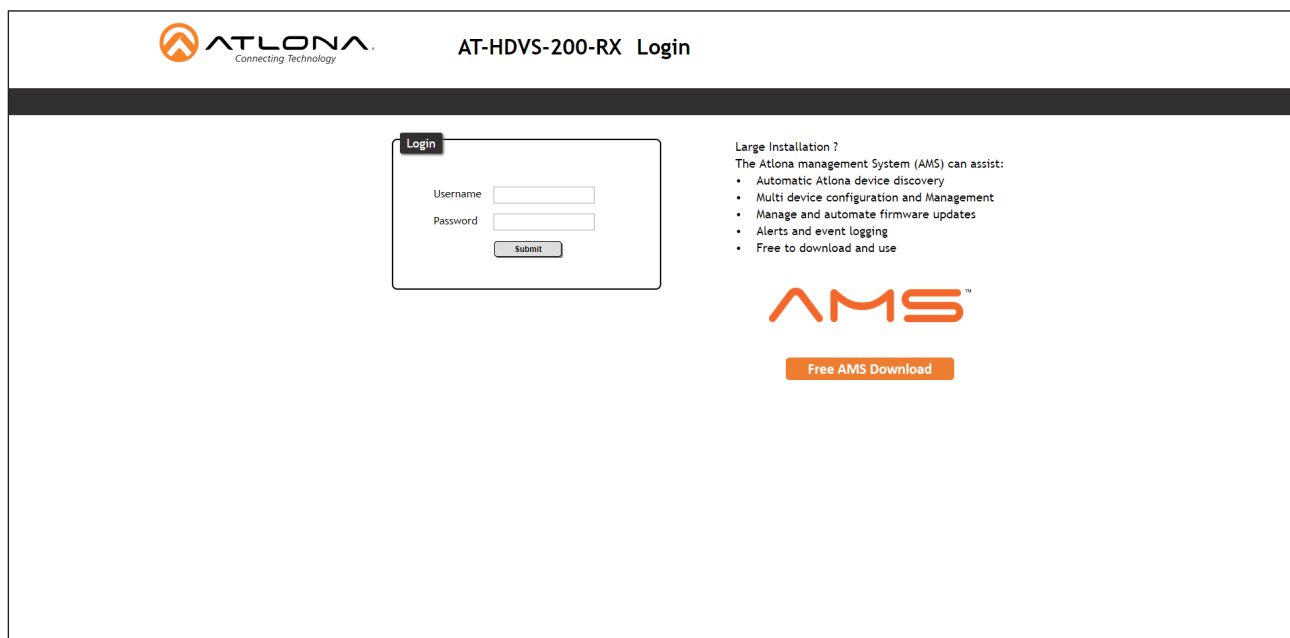
4. Browse to the location of the firmware file, select it, and click the **Open** button.
5. Click the **Update** button, under the **Firmware Update** section.

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.

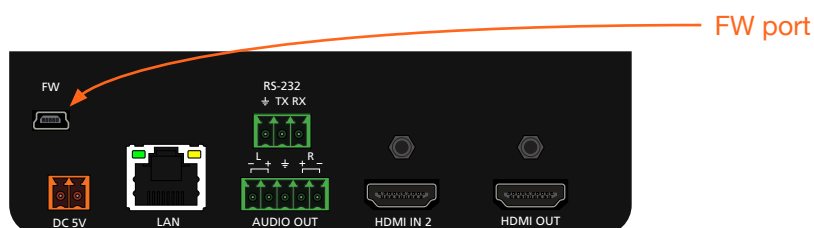


Using USB

Requirements

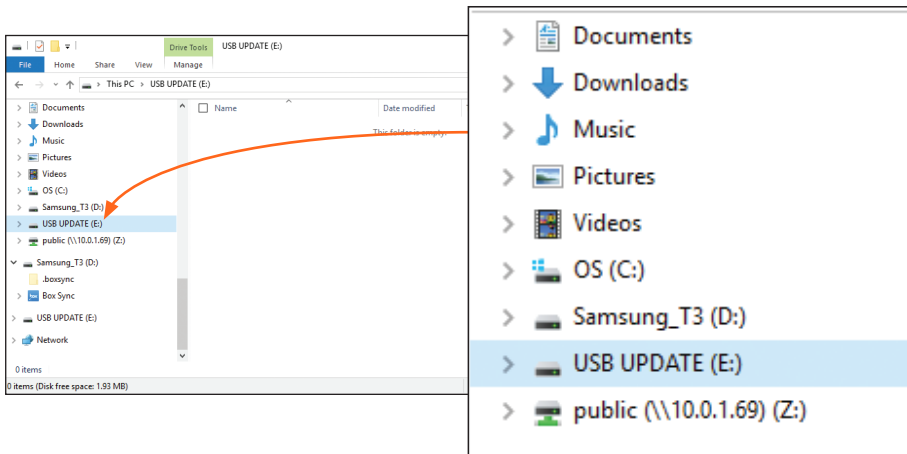
- AT-HDVS-200-RX
- Firmware file
- Computer
- USB-A to USB mini-B cable

1. Disconnect power from the AT-HDVS-200-RX.
2. Connect the USB-A to USB mini-B cable from the computer to the **FW** port on the AT-HDVS-200-RX.



3. Press and hold the **MENU** key, on the front panel, while connecting power to the AT-HDVS-200-RX.
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-RX.
10. Power-cycle the AT-HDVS-200-RX 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-RX.

Feature	Settings	
Resolution	Preferred Input Timing	1920x1080
	Output Format	720p60
Aspect ratio	Full	
Overscan	Disabled	
Audio	Mute	Off
	HDMI Audio	On
	L/R Audio	On
	Bass	0
	Treble	0
Picture	Brightness	64
	Contrast	64
	Saturation	64
	Hue	64
	Sharpness	10
RS-232 port 1	Baud Rate	9600
	Data Bits	8
	Parity	None
	Stop Bits	1
RS-232 port 2	Baud Rate	115200
	Data Bits	8
	Parity	None
	Stop Bits	1
Zone	Baud Rate	115200
	Data Bits	8
	Parity	None
	Stop Bits	1
Login	Username (default)	root
	Password (default)	Atlona
Relay	Control	Follow Display Status
	Relay 1	Normally Closed (NC)
	Relay 2	Normally Open (NO)
Other	Display HDCP	Compliant
	In Auto Switch	On
	Mirror-V	Off
	ASP Background	Grey

Feature	Settings	
OSD	Position Transparency Info Timer Menu Timer Info Display Menu Display Background	Left Top 12 10 (seconds) 20 (seconds) Auto Auto Grey
System	IP Mode Static IP Address (default) Netmask Gateway Telnet Port Telnet Login Mode Telnet Timeout Broadcast	DHCP 192.168.1.254 255.255.255.0 192.168.1.1 23 Off 120 (seconds) On

Specifications

Video	
Video	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	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	PCM 2Ch (de-embedded)
HDMI OUT & HDBaseT IN	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.)

Cable	Feet	Meters
CAT5e/6 @ 1080p	330	100
HDMI IN / OUT @ 1080p	30	10

Signal	
Bandwidth	6.75 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)
Supply	Input: 100 - 240 V AC, 50/60 Hz Output: 48 V DC, 0.83 A

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

Weight	Pounds	Kilograms
Device	1.00	0.45

Certification	
Unit	CE, FCC

Index

- A**
- Aspect ratio** 28
 - setting 16
 - Audio**
 - analog 17
 - connector 10
 - enabling / disabling 17
 - HDMI 17
 - muting 52
- B**
- Background color**
 - setting 20
 - Brightness** 30, 31
 - adjusting 15
- C**
- Commands**
 - Aspect 37
 - Bass 37
 - Blink 37
 - Broadcast 38
 - BRT 38
 - CSpara 39
 - CTRST 39
 - HDBTRS232 40
 - HDCPSet 40
 - HDMIAUD 41
 - help 41
 - HUE 42
 - HZoom 42
 - Input 42
 - IPAddUser 43
 - IPCFG 43
 - IPDelUser 43
 - IPDHCP 44
 - IPLogin 44
 - IPPort 44
 - IPStatic 45
 - IPTimeout 45
 - KitMode 45
 - Mreset 46
 - PictureRst 46
 - PrefTimg 46
 - RelayAct 47
 - RelayAuto 47
 - RS232para 48
 - RS232zone 48
 - SATRT 49
 - SHARP 49
 - System 49
 - TREBLE 50
 - Type 50
 - Version 50
 - VidOutRes 51
 - VOUT 51
 - VOUTMute 52
 - VZoom 52
 - Zoom 52
- Connection**
 - diagram 10
 - instructions 10
- Contents**
 - package 8
- Contrast** 30, 39
 - adjusting 15
- Customer support** 3
- D**
- Default settings** 56
 - Description**
 - front / rear panel 9
 - DHCP** 33, 44
 - Down**
 - button 13
- F**
- FCC statement** 6
 - Features** 8
 - Firmware**
 - displaying 26
 - updating
 - using the web GUI 53
 - using USB 54
- G**
- Gateway** 34
- H**
- HDCP** 19
 - Hue** 30, 42
 - adjusting 15
- I**
- Information**
 - displaying 20
 - Input**
 - selecting 14
 - Installation** 10
 - IP address**
 - default 45
- M**
- Menu**
 - button 13
 - main 13
 - Muting**
 - audio 52
- O**
- Operating notes** 3
 - OSD**
 - background color 19
 - position 18
 - timer 18
 - transparency 18
 - Output**
 - vertically mirroring 20
 - Output volume**
 - adjusting 51
 - Overscan**
 - adjusting 52
 - enabling / disabling 16
 - horizontal 16
 - vertical 16
- P**
- Panel descriptions** 9
 - Password**
 - setting 32
 - Picture**
 - reset 15
 - Power**
 - connector 11
- R**
- Reset**
 - factory-default 46
 - to factory-default 22
 - Resolution**
 - input 14
 - output 15, 51
 - setting 27
 - RS-232**
 - connector 10
- S**
- Safety information** 6
 - Saturation** 30
 - adjusting 15
 - Sharpness** 30, 49
 - adjusting 15
 - Source**

input 14

Specifications 58

Static IP 33, 45

Subnet mask 33

T

Telnet

listening port 34

login mode 34

timeout 34

TMDS

clock 21

sync 21

U

Up

button 13

Users

adding 32, 43

editing 32

removing 32, 43

V

Volume

adjusting 51

W

Warranty 4

Web GUI 23

