

4K / UHD

Two-Input Wallplate Switcher for HDMI and USB-C with HDBaseT™ Output



Version Information

Version	Release Date	Notes
1	Dec 2017	Initial release
2	Feb 2018	f/w 1.0.10; added InputStatus and InputBroadcast commands
3	Mar 2018	Commands moved to separate API document
4	Jun 2019	1.0.31 web GUI updates; refer to Introduction to Web GUI (page 17)
5	Dec 2019	1.0.38 - Added display control support when connected to the AT-UHD-CLSO-824.

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IMPORTANT: Visit <http://www.atlona.com/product/AT-HDVS-210U-TX-WP> for the latest firmware updates and User Manual.

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OR

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OR

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

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CAUTION: TO REDUCE 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 Compliance

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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Table of Contents

Introduction	8
Features	8
Package Contents	8
Panel Description	9
Installation	10
RS-232 Connector	10
Connection Instructions	11
Connection Diagram	12
Faceplate Removal and Assembly	13
IP Configuration	14
Setting the IP Mode	14
Setting the IP Address Using Commands	15
Setting the IP Address using the Web GUI	15
Resetting to Factory-Default Settings	16
The Web GUI	17
Introduction to Web GUI	17
Info page	19
A/V Settings page	20
Display page	22
RS-232 page	25
EDID page	26
Config page	27
System page	28
HDBT page	30
Appendix	31
Updating the Firmware	31
Using the Web GUI	31
Using USB	32
Default Settings	34
Specifications	35
Index	37

Introduction

The Atlona **AT-HDVS-210U-TX-WP** is a 2×1 switcher and HDBaseT transmitter with HDMI and USB-C inputs. It features a US one-gang, Decora-style wallplate form factor, and includes interchangeable black and white wallplates and faceplates. The USB-C input is ideal for AV interfacing with Mac®, Chromebook™, and Windows® PCs, as well as smartphones and tablets. Video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded audio and control can be transmitted up to 330 feet (100 meters). The HDVS-210U-TX-WP is HDCP 2.2 compliant. It is designed for use with select HDVS Series receivers and scalers, as well as the AT-UHD-EX-100CE-RX-PSE receiver (available together as a kit), and 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 UHD-EX-100CE-RX-PSE or other Atlona HDBaseT-equipped devices through Power over Ethernet (PoE).

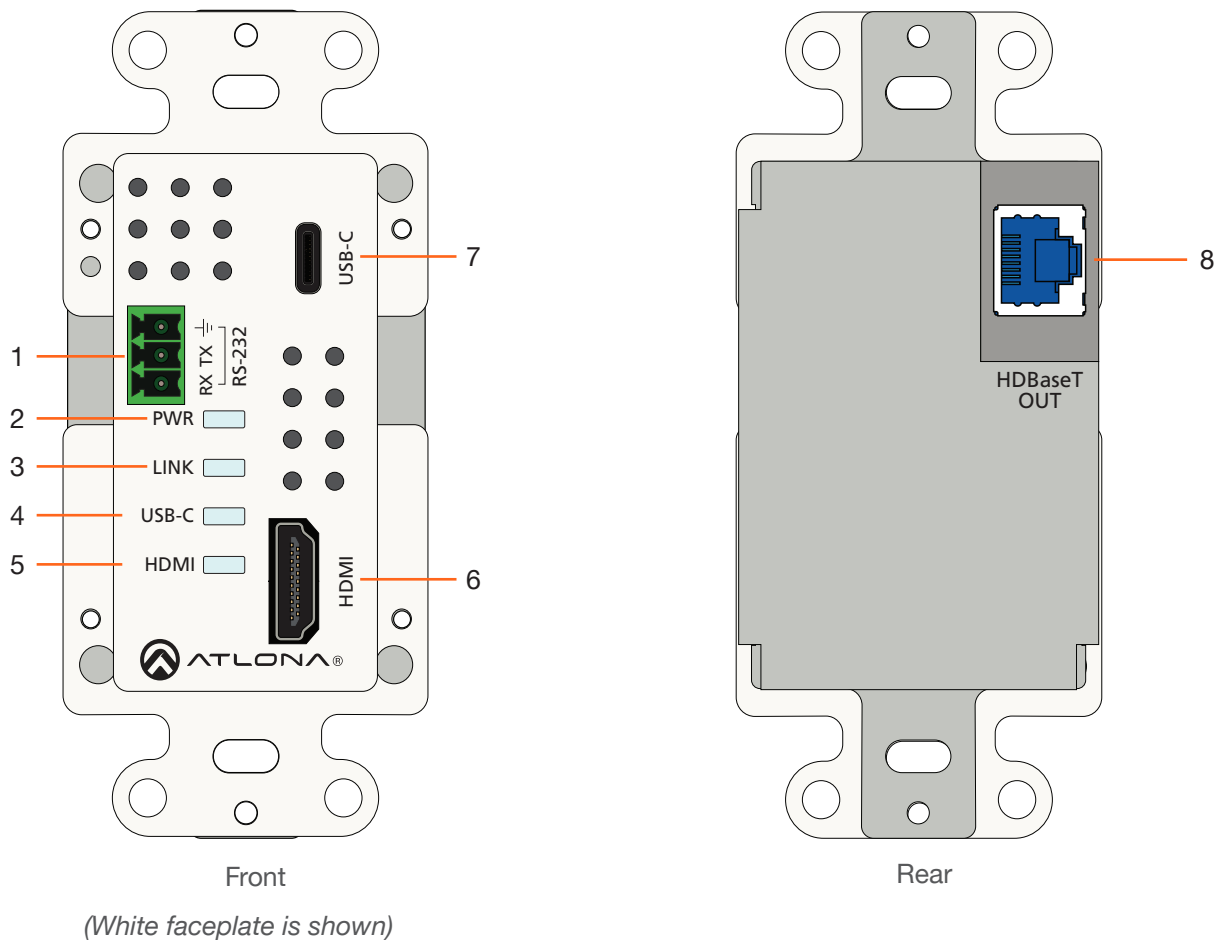
Features

- US one-gang enclosure for Decora-style wallplate openings – interchangeable as black or white
- 2×1 HDBaseT switcher with HDMI and USB-C inputs
- HDBaseT transmitter for AV, power, and control up to 330 feet (100 meters)
- HDCP 2.2 compliant
- 4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling
- Remotely powered via PoE (Power over Ethernet)
- Automatic display control
- Automatic input selection using hot plug detect and video detection technology
- TCP/IP and RS-232 control of switcher
- EDID management
- HDCP management
- Configured and managed by AMS (Atlona Management System)
- Field-updatable firmware
- Front-panel power and signal status LED indicators
- Award-winning 10 year limited product warranty

Package Contents

- 1 x AT-HDVS-210U-TX-WP
- 1 x USB-C cable
- 1 x White faceplate with RS-232 cover
- 1 x White wallplate
- 1 x Black faceplate with RS-232 cover
- 1 x Black wallplate
- 1 x Installation Guide

Panel Description



1 RS-232

Remove this cover to expose the RS-232 port. Connect an RS-232 cable, with a 3-pin captive screw connector, from this port to a control system. Refer to [RS-232 Connector \(page 10\)](#) for more information.

2 PWR

This LED indicator glows solid green when the unit is powered.

3 LINK

This LED indicator glows solid green to indicate the presence of a stable A/V signal.

4 USB-C

This LED indicator glows solid green when the **USB-C** port is the currently selected port. This port *does not* support charging of external devices.

5 HDMI

This LED indicator glows solid green when the **HDMI** port is the currently selected port.

6 HDMI

Connect an HDMI cable from this port to a UHD/HD source.

7 USB-C

Connect an USB cable from this port to a UHD/HD source.

8 HDBaseT OUT

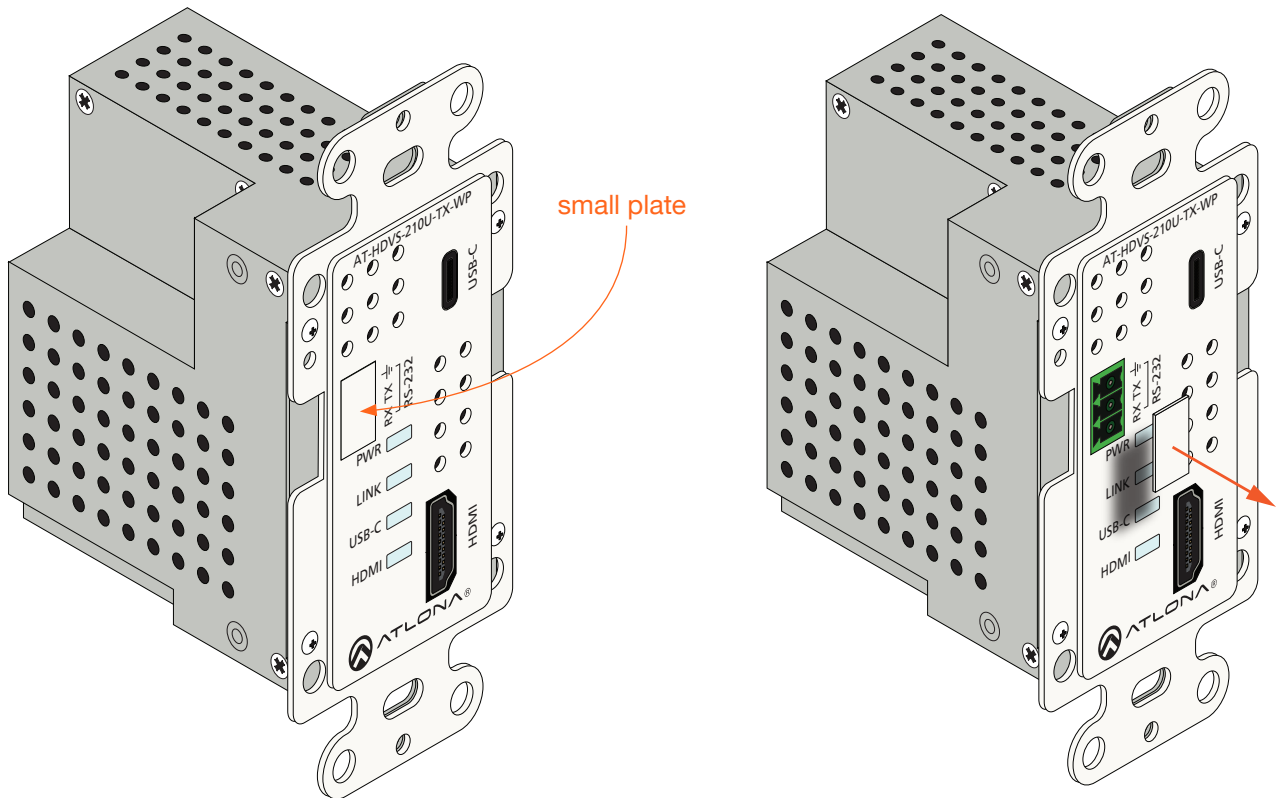
Connect an Ethernet cable from this port to a locally-powered HDBaseT receiver such as the AT-HDVS-200-RX or AT-UHD-EX-100CE-RX-PSE.

Installation

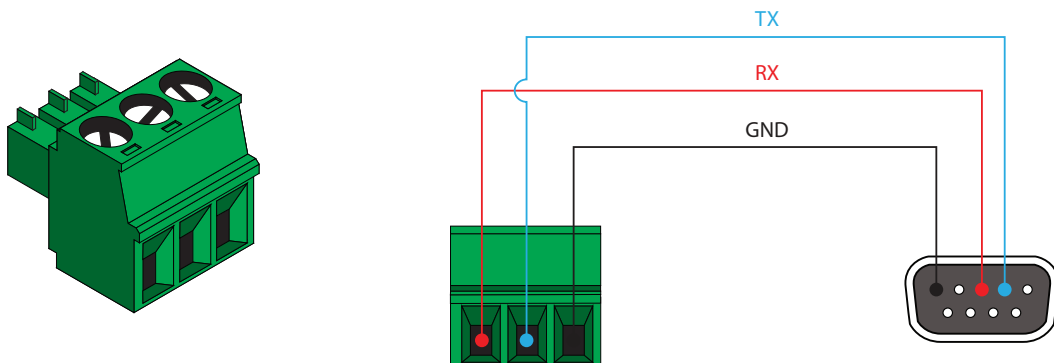
RS-232 Connector

The AT-HDVS-210U-TX-WP provides RS-232 control between an automation system and an RS-232 device. This step is optional.

1. Remove the small plate covering the **RS-232** port on the faceplate.



2. Use wire strippers to remove a portion of the cable jacket.
3. Remove at least 3/16" (5 mm) from the insulation of the RX, TX, and GND wires.
4. Insert the TX, RX, and GND wires into correct terminal using the included 3-pin captive screw connector.



Connection Instructions

1. Determine the proper faceplate to be used for installation. If using the black faceplate, then refer to [Faceplate Removal and Assembly \(page 13\)](#) for information on changing the faceplate.
2. Connect an Ethernet cable, from the **HDBaseT OUT** port, on the rear of the unit, to one of the following devices. Ethernet cables should use EIA/TIA-568B termination:
 - a. PoE-compatible receiver (not included), such as the AT-HDVS-200-RX. Refer to *Figure 1* on the next page.
 - b. Atlona Power Over Ethernet Mid-Span Power Supply (AT-PS-POE). Use this option if the system endpoint is not capable of supplying power to the AT-HDVS-210U-TX. Refer to *Figure 2* on the next page.

Refer to the tables below for recommended cabling when using Atlona products with HDBaseT technology. The green bars indicate the signal quality when using each type of cable. Higher-quality signals are represented by more bars. *These table are for guidance, only. Performance may vary, based on environmental factors.*

Core	Shielding	CAT5e	CAT6	CAT6a	CAT7
Solid	UTP (unshielded)	■	■■■	■■■■■	N/A
	STP (sheilded)	■■	■■■■■	■■■■■■■	■■■■■■■
Performance Rating (MHz)		350	500	600	800

Cable	Max. Distance @ 4K	Max. Distance @ 1080p
CAT5e / CAT6	230 feet (70 meters)	330 feet (100 meters)
CAT6a / CAT7	330 feet (100 meters)	330 feet (100 meters)



IMPORTANT: Stranded or patch cable is not recommended due to performance issues. Shielded cables are strongly recommended to minimize signal noise and interference.

3. Complete the installation of the AT-HDVS-210U-TX-WP into the electrical box or mudring. Refer to the [Connection Diagram \(page 12\)](#) if necessary.
4. Connect a USB-C cable from the **USB-C** port to a UHD/HD source.



NOTE: The USB-C port *does not* support charging of external devices.

5. Connect an HDMI cable from the **HDMI** port to a UHD/HD source.
6. OPTIONAL: Connect an RS-232 control system to the **RS-232** port on the switcher. This port is used to control functions of the AT-HDVS-210U-TX-WP, such as volume up/down, display on/off, etc.

No power supply is required for the AT-HDVS-210U-TX-WP. This unit will be powered over the Ethernet cable, from a compatible HDBaseT receiver.

Connection Diagram

Figure 1

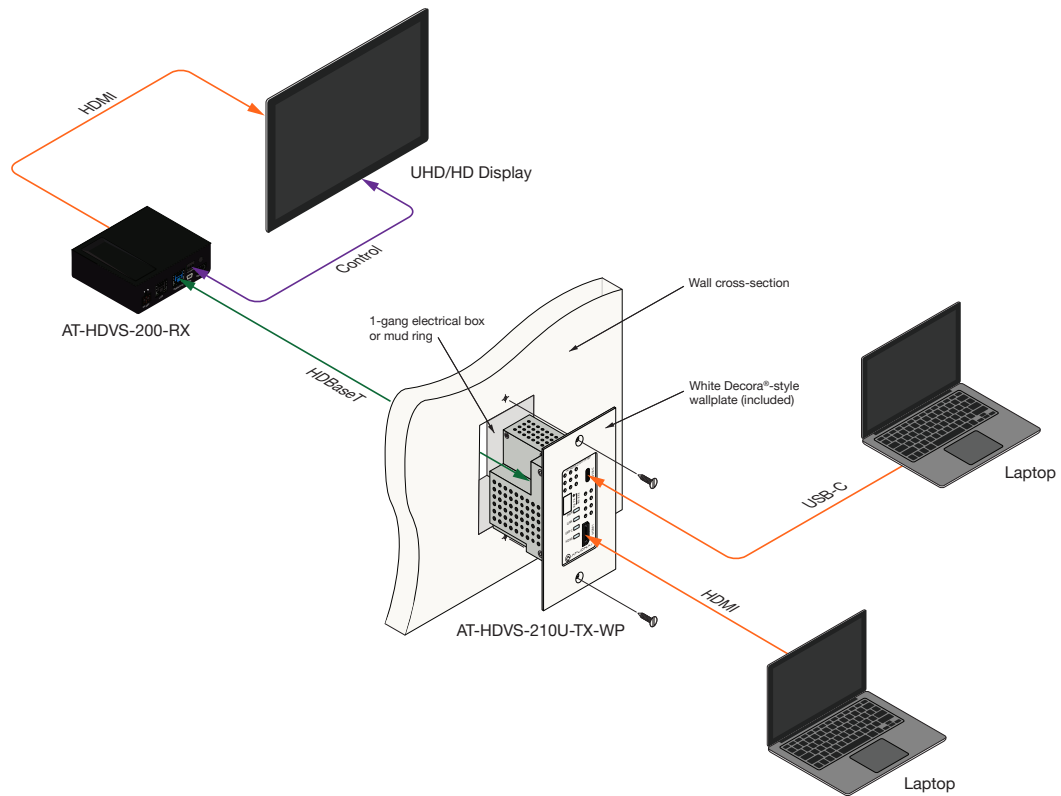
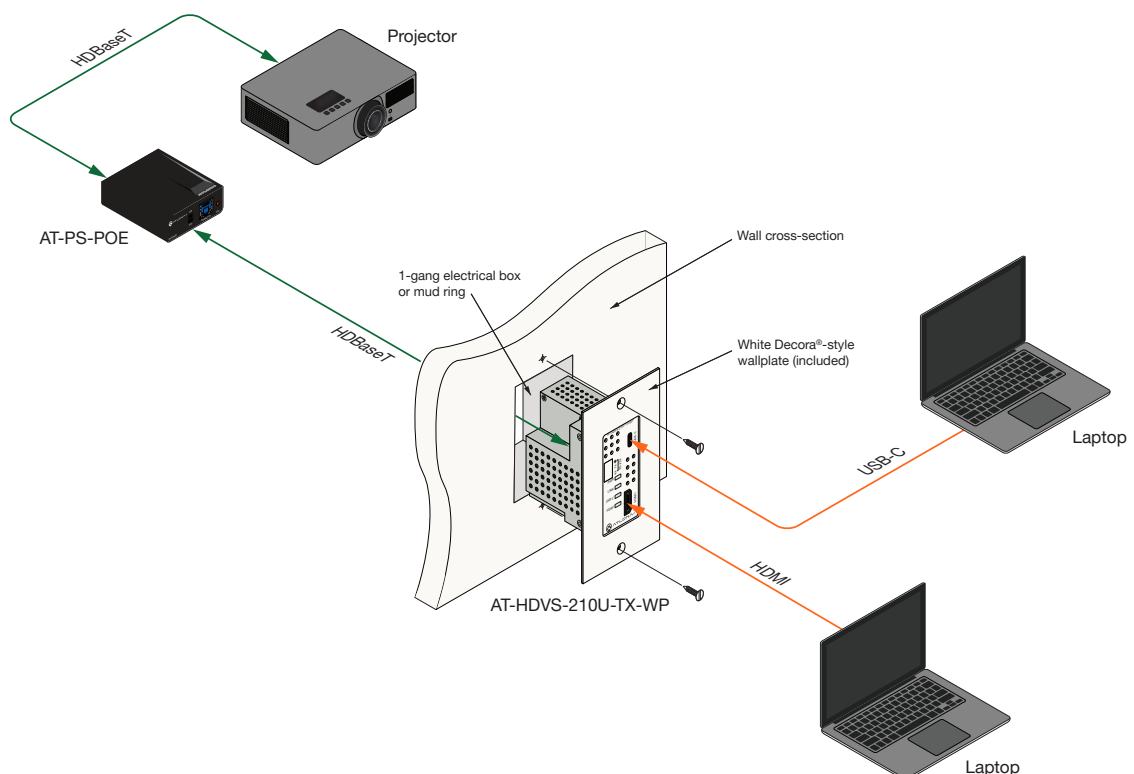


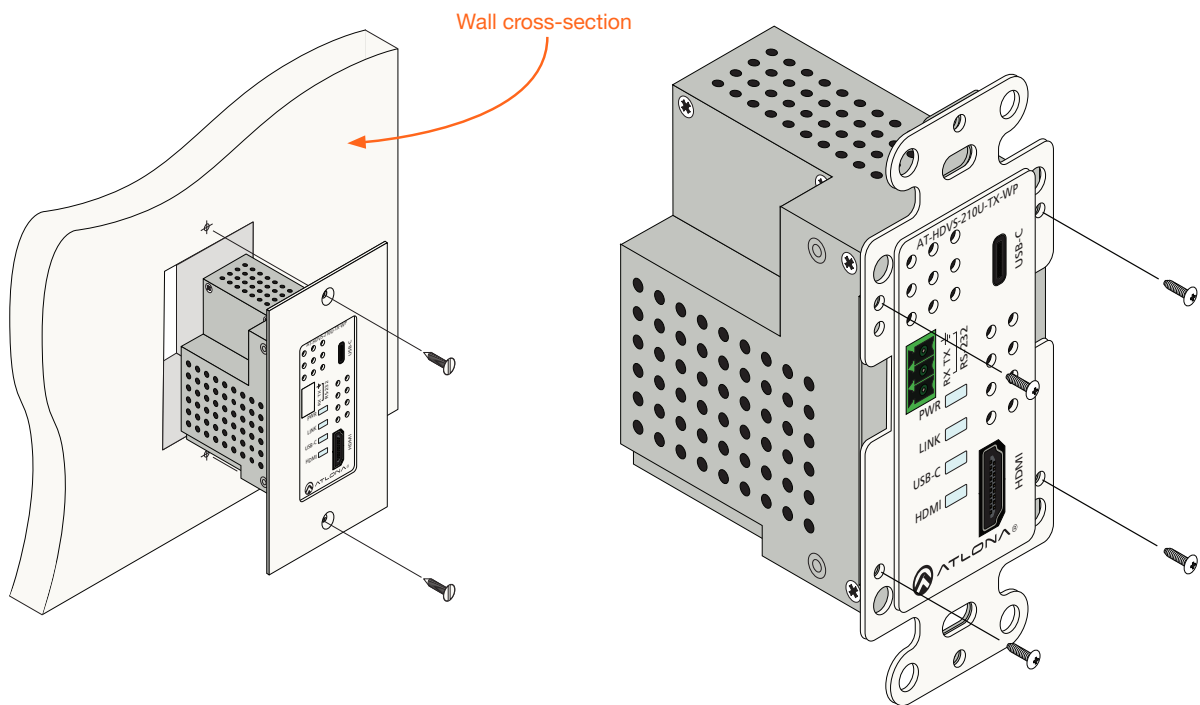
Figure 2



Faceplate Removal and Assembly

The AT-HDVS-210U-TX-WP includes an optional black faceplate and wallplate. Removal of the faceplate requires that the AT-HDVS-210U-TX-WP be disassembled from the electrical box or mud ring.

1. Remove the wall plate from the electrical box and slide out the AT-HDVS-210U-TX-WP assembly, as shown. It is recommended that the Ethernet cable, connected to the **HDBaseT OUT** port, be disconnected from the unit, to allow for easy installation of the faceplate.



2. Remove the four screws, holding the faceplate to the assembly, using a Phillips screwdriver. Once the screws are removed, gently remove the faceplate by pulling it toward you.
3. Attach the new faceplate and secure it using the four Phillips-head screws.
4. Install the AT-HDVS-210U-TX-WP into the electrical box or mud ring. Make sure to reconnect the Ethernet cable to the **HDBaseT OUT** port, on the back of the assembly, before reinstalling the unit into the electrical box.
5. Reattach the wallplate to secure the entire assembly in place.

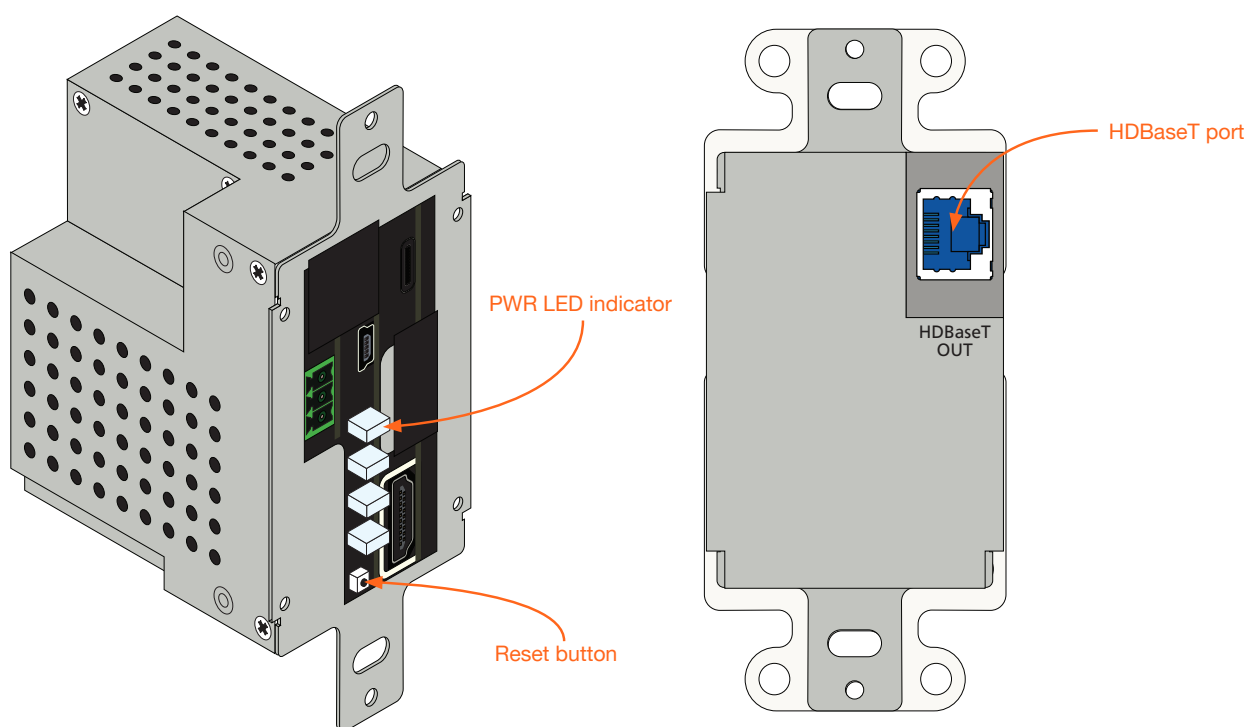
IP Configuration

The AT-HDVS-210U-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 of the unit, to identify both the unit and its IP address on the network. If a static IP address is desired, the unit can be switched to static IP mode. Use one of the following procedures to switch between DHCP and static IP mode. The default static IP address of the AT-HDVS-210U-TX-WP is 192.168.1.254.

If the AT-HDVS-210U-TX-WP is unable to detect a DHCP server within 15 seconds, then the unit will set all IP settings to zero.

Setting the IP Mode

1. Make sure the AT-HDVS-210U-TX-WP is powered, by connecting an Ethernet cable between a PoE-compatible receiver, such as the AT-HDVS-200-RX, and the **HDBaseT OUT** port on the unit. Power is supplied by the receiver over HDBaseT.
2. Remove the faceplate. Refer to [Faceplate Removal and Assembly \(page 13\)](#) for more information.



3. Press and hold the **Reset** button for approximately 5 seconds. Release the **Reset** button once the **PWR** LED indicator begins to flash. The number of flashes will indicate the currently selected IP mode.

PWR LED flashes	Description
Two	Static IP mode
Four	DHCP mode

Setting the IP Address Using Commands

Use the IPStatic and IPDHCP commands to switch between DHCP and IP mode through RS-232 or Telnet. Refer to API document for more information. All commands and their arguments are case-sensitive.

- **Setting static IP mode**

1. Connect to the AT-HDVS-210U-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-210U-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
```

└── IP address ─┘
└── Subnet mask ─┘
└── Gateway ─┘

- **Setting DHCP mode**

1. Connect to the AT-HDVS-210U-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).

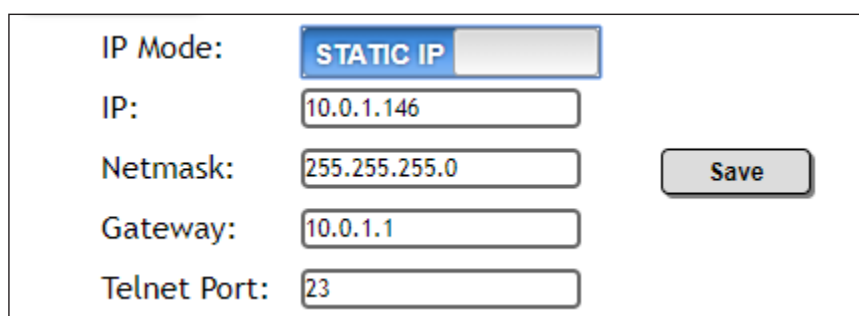
Setting the IP Address using the Web GUI

The **System** page (page 28), in the web GUI, allows the AT-HDVS-210U-TX-WP to use either DHCP or static IP mode. In order to access the web GUI, the IP address of the AT-HDVS-210U-TX-WP must be known. Refer to **Setting the IP Mode** (page 14) for more information.

1. Open the desired web browser and enter the IP address of the AT-HDVS-210U-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.



The screenshot shows the 'System' configuration page in the web GUI. It contains the following fields and controls:

- IP Mode:** A toggle switch currently set to **STATIC IP**.
- IP:** A text input field containing the value **10.0.1.146**.
- Netmask:** A text input field containing the value **255.255.255.0**.
- Gateway:** A text input field containing the value **10.0.1.1**.
- Telnet Port:** A text input field containing the value **23**.
- Save:** A button located to the right of the input fields.

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.

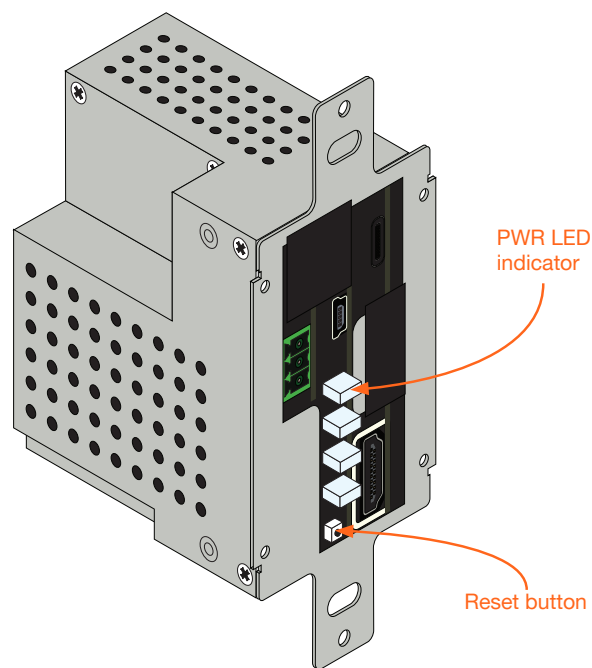
Resetting to Factory-Default Settings

Resetting the AT-HDVS-210U-TX-WP requires that the front faceplate be removed. Refer to [Faceplate Removal and Assembly \(page 13\)](#) for more information.

1. Remove the faceplate from the AT-HDVS-210U-TX-WP.
2. Press and hold the **Reset** button for 15 seconds.
3. Release the **Reset** button.

During the reboot process, the **PWR** LED indicator will glow red. The unit will be operational when the **PWR** LED indicator glows blue.

4. Reassemble the faceplate to the front of the AT-HDVS-210U-TX-WP and reinstall into the electrical box or mud ring.



The Web GUI

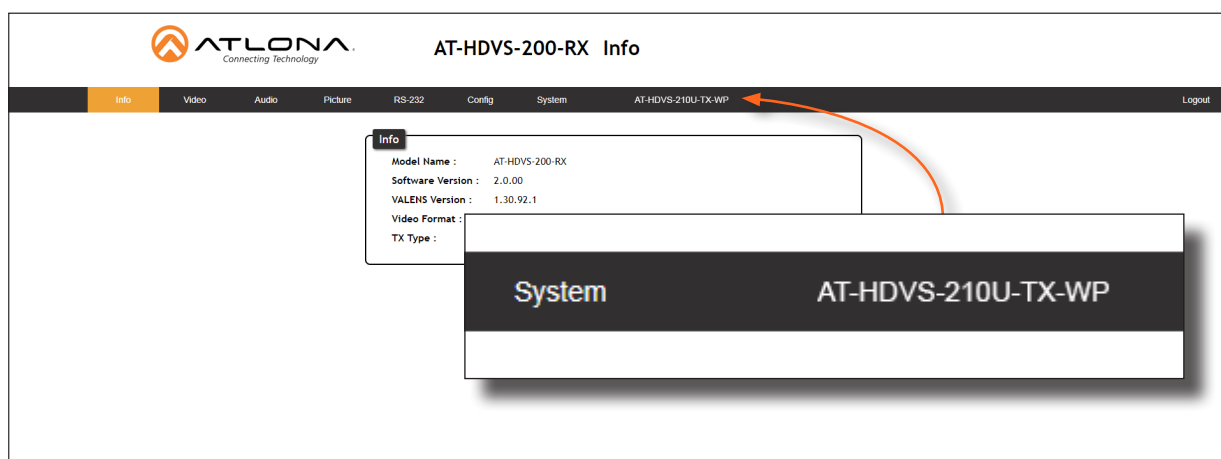
Introduction to Web GUI

The AT-HDVS-210U-TX-WP includes a built-in web GUI. Atlona recommends that the web GUI be used to set up the AT-HDVS-210U-TX-WP, as it provides intuitive management of all features.

The AT-HDVS-210U-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-210U-TX-WP. If a static IP address is desired, refer to [IP Configuration \(page 14\)](#). The default static IP address of the AT-HDVS-210U-TX-WP is 192.168.1.254.

NOTE: The web GUI can only be accessed if the AT-HDVS-210U-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-210U-TX-WP:
 - a. Login to the web GUI of the receiver unit that is connected to the AT-HDVS-210U-TX-WP. Once logged in, click the link for the AT-HDVS-210U-TX-WP, as shown:



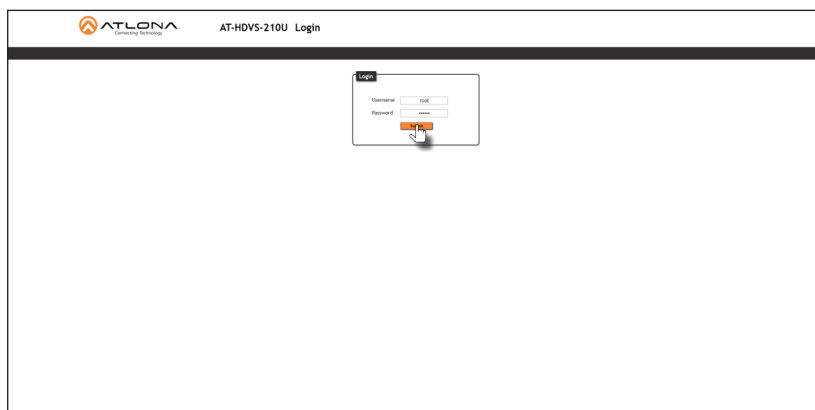
- b. Use an IP scanner to locate the IP address of the AT-HDVS-210U-TX-WP on the network. The MAC address, on the back of the unit, can be used to identify the unit with the IP address.

The Address Resolution Protocol, executed from the command line, can also be used, as shown in the example below. This command will provide a listing of all devices that are connected to the network, along with their MAC address.

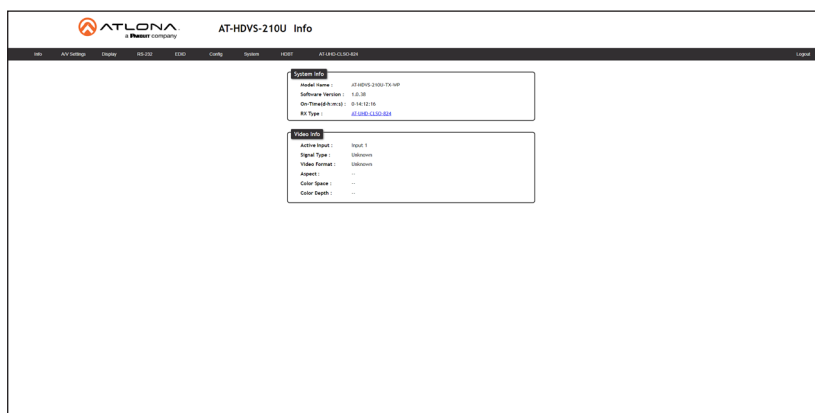
```
C:\Windows\System32>arp -a
```

Internet Address	Physical Address	Type
192.168.1.1	08-bd-43-af-25-13	dynamic
192.168.1.255	ff-ff-ff-ff-ff-ff	static
224.0.0.22	01-00-5e-00-00-16	static
224.0.0.251	01-00-5e-00-00-fb	static
224.0.0.252	01-00-5e-00-00-fc	static
239.255.255.250	01-00-5e-7f-ff-fa	static
255.255.255.255	ff-ff-ff-ff-ff-ff	static
...		
...		

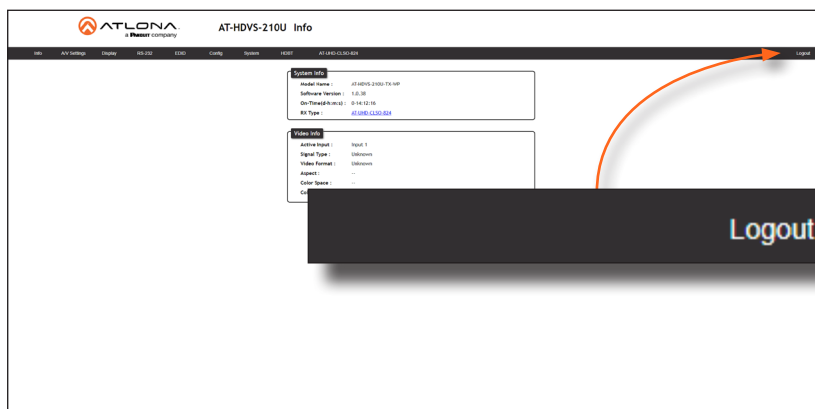
3. The **Login** page for the receiver will be displayed.
4. Type root, using lower-case characters, in the **Username** field.
5. Type Atlona in the **Password** field. This is the default password. The password field is case-sensitive. When the password is entered, it will be masked. The password can be changed, if desired. Refer to the [Config page \(page 27\)](#) for more information.
6. Click the **Submit** button or press the ENTER key on the keyboard.



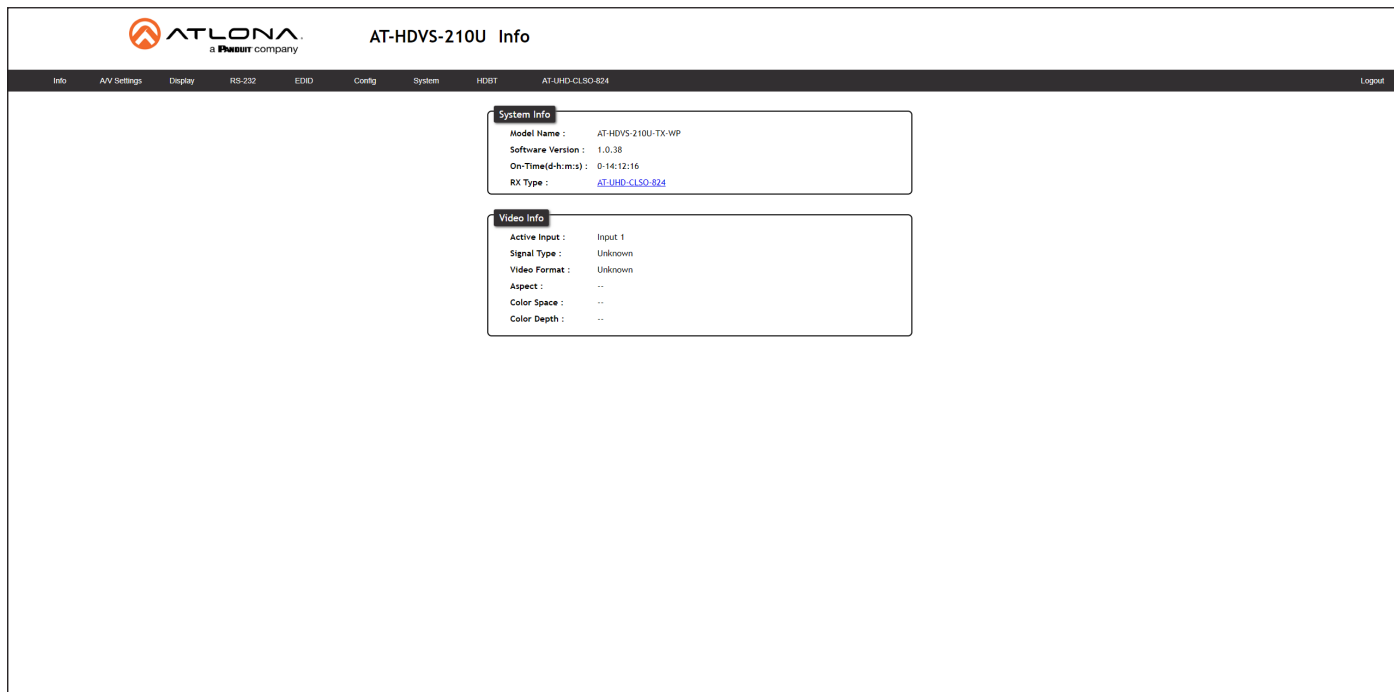
7. The **Info** page will be displayed.



8. Click **Logout**, on the far-right side of the menu bar, to log out of the web GUI and return to the **Login** page.



Info page



The screenshot shows the 'Info' page of the Atlona AT-HDVS-210U web interface. The page has a top navigation bar with links: Info, AV Settings, Display, RS-232, EDID, Config, System, HDBT, and AT-UHD-CLSD-824. The main content area displays two sections: 'System Info' and 'Video Info'.

System Info	
Model Name :	AT-HDVS-210U-TX-WP
Software Version :	1.0.38
On-Time(d-h:m:s) :	0-14:12:16
RX Type :	AT-UHD-CLSD-824

Video Info	
Active Input :	Input 1
Signal Type :	Unknown
Video Format :	Unknown
Aspect :	--
Color Space :	--
Color Depth :	--

Model Name

The model SKU of this product.

Software Version

The version of firmware that the AT-HDVS-210U-TX-WP is running. Always make sure to check the AT-HDVS-210U-TX-WP product page, on the Atlona web site, for the latest version of firmware.

On-Time (h-m)

The time elapsed since the unit was last powered-on. Turning the unit “off”, using the PWOFF command, will not reset this field.

RX Type

Displays the model of the receiver unit (if connected). If no receiver is connected, then “UNKNOWN” will be displayed.

Active Input

The currently selected input. Refer to the [AV Settings page \(page 20\)](#) for information on changing the input.

Signal Type

Displays the input resolution of the source device.

Video Format

Displays the video format.

Aspect

Displays the aspect ratio of the input video source.

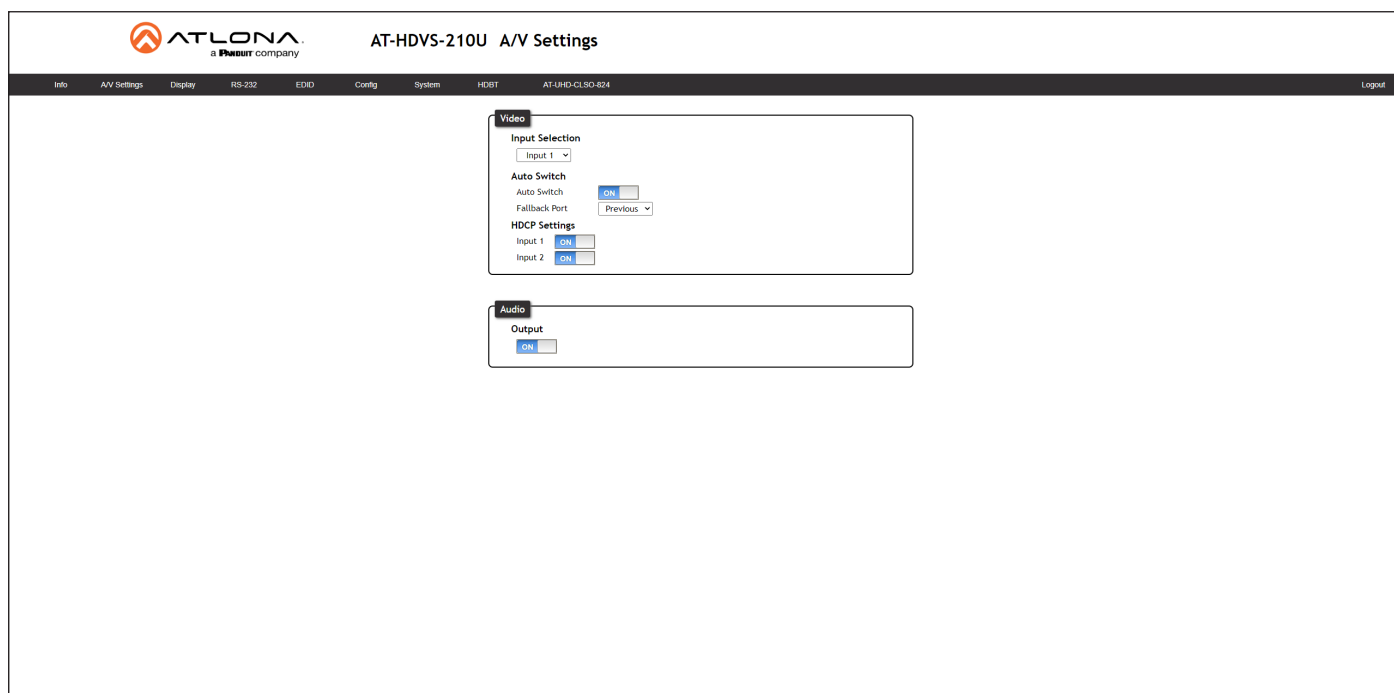
Color Space

Displays the color space of the input video source.

Color Depth

Displays the color depth of the input video source.

A/V Settings page



Input Selection

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

Setting	Description
Input 1	USB-C
Input 2	HDMI 2

Auto Switch

Three controls are available under the Auto Switch feature.

- Auto Switch**
 Click this toggle switch to enable or disable auto-switching. When enabled, the AT-HDVS-210U-TX will automatically switch to the another port, if the signal is disrupted on the currently active input. The port to be switched to, is defined in the **Fallback Input** drop-down list.
- Fallback Input**
 Click this 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.

Input	Description
Previous	Automatically switches to the input that was connected last.
USB Type-C	Switches to USB-C .
HDMI	Switches to HDMI .

HDCP Settings

Sets the HDCP reporting mode of the specified HDMI port. Input 1 = USB-C; Input 2 = HDMI 2. Some devices, such as Mac computers will transmit HDCP content if an HDCP-compliant display/sink is detected. Setting this value to OFF, will instruct the source to send non-HDCP content (if possible) to non-HDCP display and/or sink devices. Note that setting this value to OFF will not decrypt HDCP content.



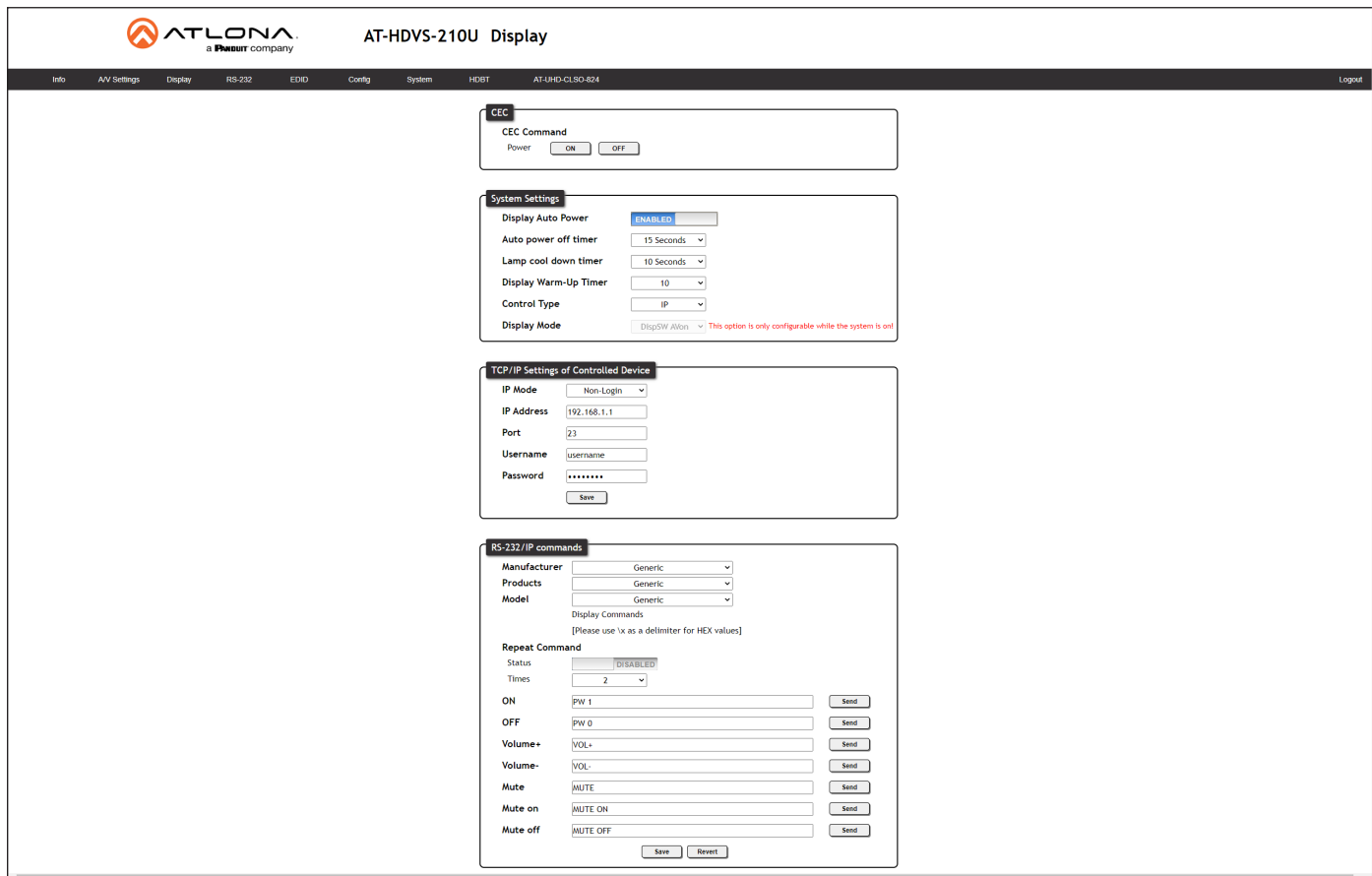
NOTE: Setting this feature to **OFF**, for any source, does *not* provide decryption of HDCP content to non-HDCP compliant sink devices. Sources such as Mac® computers and the Sony PlayStation® will *always* transmit HDCP content.

Setting	Description
ON	HDCP content is always transmitted by the source
OFF	Instructs the source to send non-HDCP content, if possible

Output

Mutes or un-mutes the audio output. Set the **Output** toggle to OFF to disable audio on the output. The default setting is ON.

Display page



The screenshot shows the web interface for the AT-HDVS-210U Display. The top navigation bar includes links for Info, AV Settings, Display, RS-232, EDID, Config, System, HDBT, and AT-UMD-CLSD-824. The main content area is titled "AT-HDVS-210U Display" and contains several configuration sections:

- CEC**: A section with a "CEC Command" label and two buttons, "ON" and "OFF", for controlling the display's power via CEC.
- System Settings**: A section with various settings:
 - Display Auto Power**: A toggle switch currently set to "ENABLED".
 - Auto power off timer**: A dropdown menu set to "15 Seconds".
 - Lamp cool down timer**: A dropdown menu set to "10 Seconds".
 - Display Warm-Up Timer**: A dropdown menu set to "10".
 - Control Type**: A dropdown menu set to "IP".
 - Display Mode**: A dropdown menu set to "Display On". A red note below it states: "This option is only configurable while the system is on".
- TCP/IP Settings of Controlled Device**: A section for network configuration:
 - IP Mode**: A dropdown menu set to "Non-Login".
 - IP Address**: A text field containing "192.168.1.1".
 - Port**: A text field containing "23".
 - Username**: A text field containing "username".
 - Password**: A text field containing "*****".
 - A "Save" button is located at the bottom of this section.
- RS-232/IP commands**: A section for sending control commands:
 - Manufacturer**, **Products**, and **Model**: Each has a dropdown menu set to "Generic".
 - Display Commands**: A section with a note "(Please use \x as a delimiter for HEX values)".
 - Repeat Command**: A section with a "Status" dropdown set to "DISABLED" and a "Times" dropdown set to "2".
 - ON**: A text field with "PW 1" and a "Send" button.
 - OFF**: A text field with "PW 0" and a "Send" button.
 - Volume+**: A text field with "VOL+" and a "Send" button.
 - Volume-**: A text field with "VOL-" and a "Send" button.
 - Mute**: A text field with "MUTE" and a "Send" button.
 - Mute on**: A text field with "MUTE ON" and a "Send" button.
 - Mute off**: A text field with "MUTE OFF" and a "Send" button.
 - "Save" and "Revert" buttons are at the bottom of this section.

CEC Command

Click the ON or OFF button to turn the display on or off using CEC.

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.

Display Auto Power

Set this value to ENABLE to send the command to power-on the display when an A/V signal is detected. Otherwise, set to DISABLE to turn this feature off.

Auto power off timer

Sets the time interval before the command to power-off the display is sent, when an A/V signal is no longer present. The default value is 15 seconds. Available values are 5 seconds to 1 hour.

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 "power on" or "power off" commands until the last "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 projector lamp warm-up timer, in seconds. During the warm-up interval, the AT-HDVS-210U-TX-WP will not start the auto power-off timer. This value specifies the time interval that must elapse, after the display control “on” command is sent, before the display “power off” command can be sent. This feature is used to prevent a “power off” command from being sent while the lamps are warming up. Available values are 10 to 300 seconds. The default value is 10 seconds.

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.

Display Mode

Click this drop-down list to select the behavior of the display when a source is connected.

Setting	Description
DispSW AVon	Display switches on/off, source audio/video signal is 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; Lamp cool down timer and Power on delay timer are ignored.

IP Mode

Click this drop-down list to select the login mode.

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 device in this field.

Port

Enter the listening port of the device in this field.

Username

Enter the username for login. If the **IP Mode** is set to Non-Login, then this information will not be required.

Password

Enter the password for login. If the **IP Mode** is set to Non-Login, then this information will not be required.

Save

Click this button to save all changes in this window group.

The following section is only available when the **Control Type** is set to either **RS-232** or **IP**.

Manufacturer

Click this drop-down list to select the display manufacturer. If the display device being controlled is not in this list, then select **Generic** and enter the commands manually.

Generic	Hitachi	Qomo
Acer	Infocus	Samsung
Barco	LG	Sharp
Benq	NEC	Sony
Canon	Optima	Toshiba
Casio	Panasonic	ViewSonic
Eiki	Pjlink	Vivitek
Epson	Planar	

Products

Click this drop-down list to select the product. The options available within this drop-down list are dependent upon the selected value in the **Manufacturer** drop-down list.

Model

Click this drop-down list to select the model. The options available within this drop-down list are dependent upon the selected value in the **Products** drop-down list.

Repeat Command

- Status**
 Click this toggle switch to set to **ENABLE** or **DISABLED**. Enabling this feature will re-send the command. Specify the number of times that the command is transmitted by setting the **Times** value. This feature is set to **DISABLED** by default.
- Times**
 Click this drop-down list to specify the number of times the command is sent. When the **Status** toggle switch is set to **ENABLE**, the default number of times is set to 2.

ON, OFF, Volume+, Volume-, Mute, Mute on, Mute off

These fields will need to be populated with the correct strings (either hex or ASCII format) for each function, which control the display device. If hexadecimal values are used, then use the /x delimiter at the end of the command string.

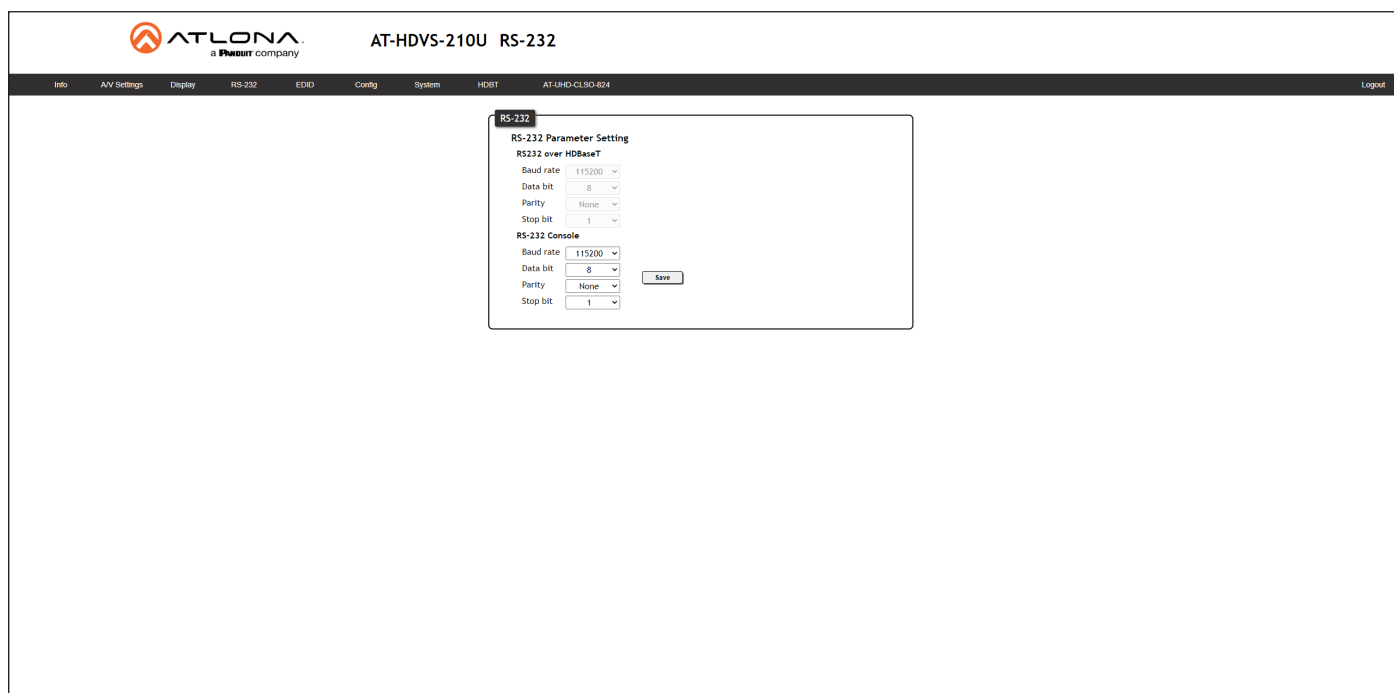
Save

Click this button to commit changes.

Revert

Click this button to undo changes to any pre-configured strings.

RS-232 page



RS232 over HDBaseT

When the AT-HDVS-210U-TX-WP is connected to the AT-HDVS-200-RX, the drop-down list boxes will be disabled and the HDBaseT baud rate will be locked at 115200.

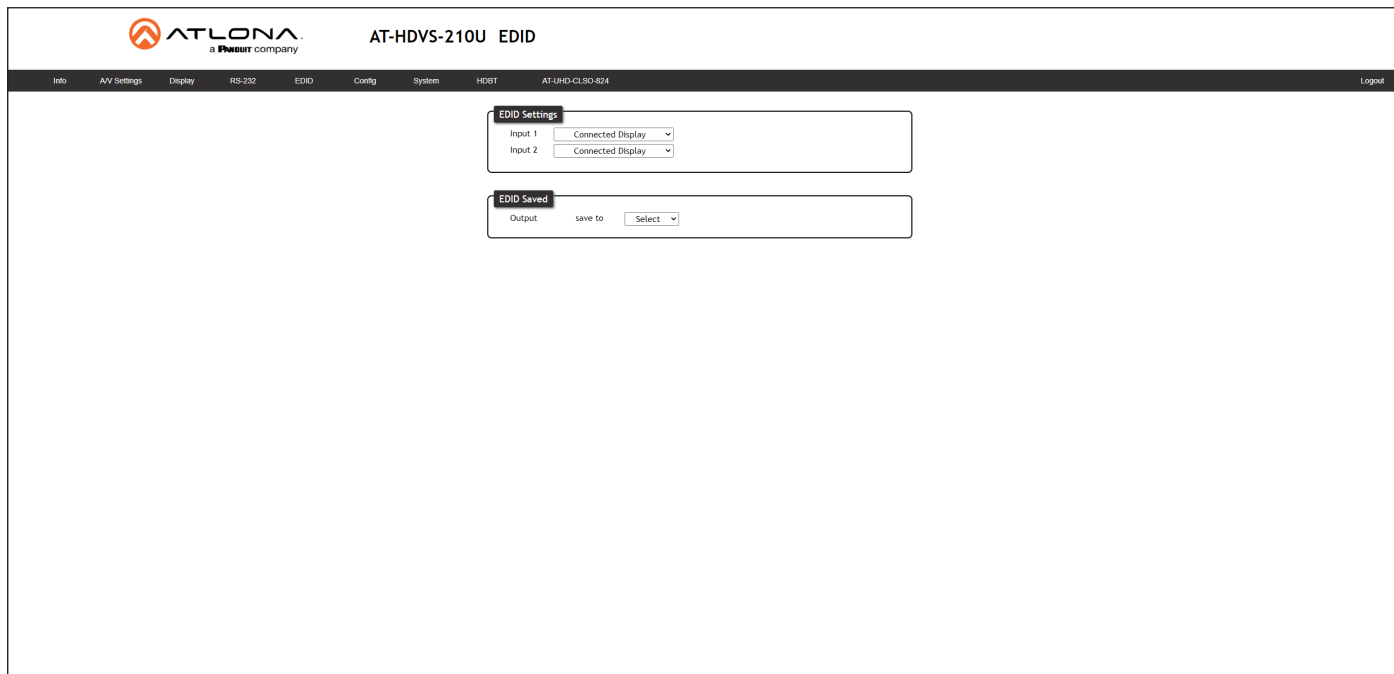
If the AT-HDVS-210U-TX-WP is connected to another HDBaseT device, such as the AT-UHD-CLSO-824, each of these drop-down list boxes can be set to the baud rate of the HDBaseT RS-232 settings on the corresponding device. Click the **Save** button to accept the settings.

RS-232 Console

When using the local RS-232 port, the following settings can be modified as required. Click the Save button to accept changes.

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



EDID Settings

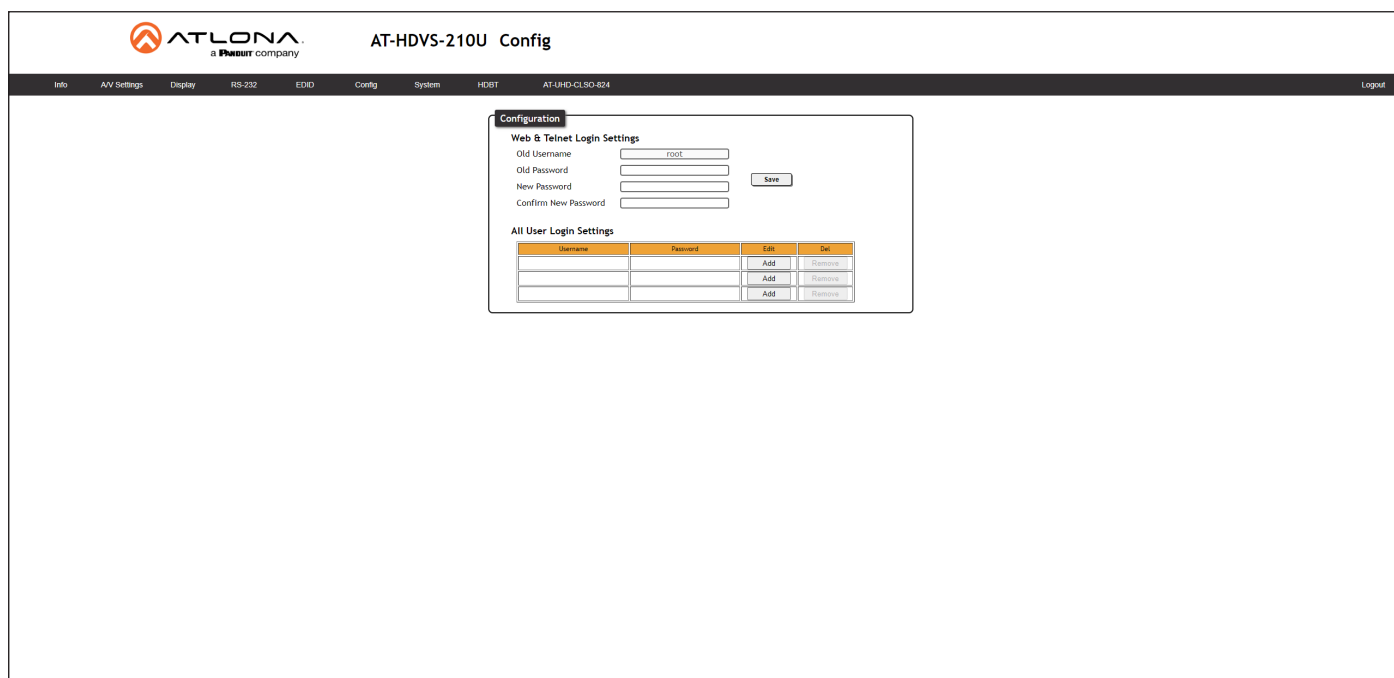
Click these drop-down lists to select the desired EDID to be used for each input. Input 1 = USB-C, Input 2 = HDMI. The source device will use the information in the EDID, before sending A/V data to the sink device.

Available EDID Selections			
Default	1080p 3D MCH	1366x768 2CH	3840x2160@60 4:2:0 MCH
1080p 2CH	1080p 3D DD	1080p DVI	3840x2160@30 4:4:4 2CH
1080p MCH	720p 2CH	1280x800 DVI	3840x2160@60 4:4:4 MCH
1080p DD	720p DD	1920x1200 2CH	4096x2160@60 4:2:0 2CH
1080p 3D 2CH	1280x800 2CH	3840x2160@60 4:2:0 2CH	4096x2160@60 4:2:0 MCH

EDID Saved

Click this drop-down list to select the memory location to save the downstream EDID. Eight memory locations are available. Once an EDID is saved to a memory location, it can be access from the **EDID Settings** drop-down lists.

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 for the “root” username in this field.

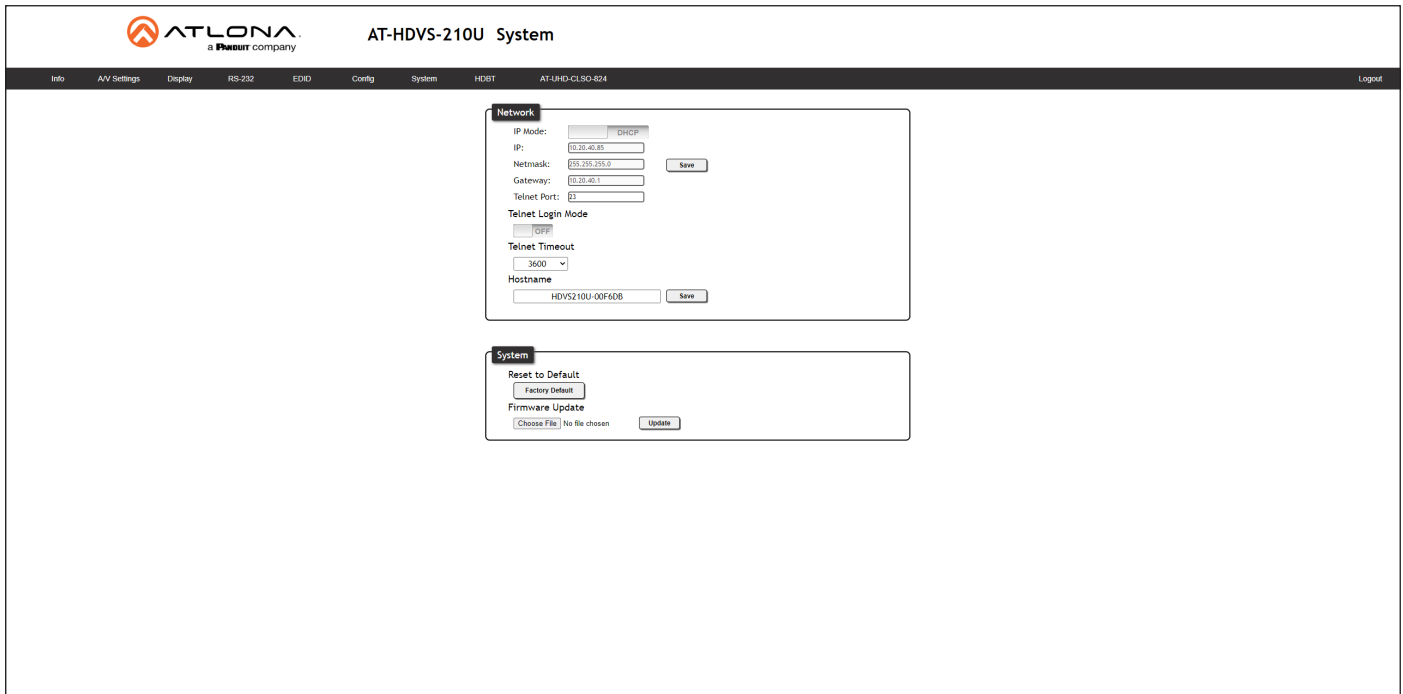
Confirm New Password

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 both a username and password have been created.

System page



The screenshot shows the AT-HDVS-210U System Web GUI. The top navigation bar includes links for Info, AV Settings, Display, RS-232, EDID, Config, System, HDBT, and AT-UHD-CLSD-824. The main content area is divided into two sections: Network and System.

Network Section:

- IP Mode:** A toggle switch set to DHCP.
- IP:** A text field containing 192.168.85.
- Netmask:** A text field containing 255.255.255.0.
- Gateway:** A text field containing 192.168.1.
- Telnet Port:** A text field containing 81.
- Telnet Login Mode:** A toggle switch set to OFF.
- Telnet Timeout:** A drop-down menu set to 3600.
- Hostname:** A text field containing HDVS210U-00F6D8.

System Section:

- Reset to Default:** A button with a Factory Default sub-button.
- Firmware Update:** A section with a Choose File button (labeled "No file chosen") and an Update button.

IP Mode

Click this toggle to set the IP mode of the AT-HDVS-210U-TX-WP. The default setting is DHCP. Available settings: STATIC IP, DHCP.

IP

Enter the IP address of the AT-HDVS-210U-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 listening port in this field.

Telnet Login Mode

Click this toggle to set the login mode to either ON or OFF. If this feature is set to ON, then the AT-HDVS-210U-TX-WP will prompt for both the username and password at the start of a Telnet session. 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).

Hostname

Displays the hostname of the AT-HDVS-210U-TX-WP, as it would appear on a network. To change the hostname, type the new hostname in this field and click the **Save** button.

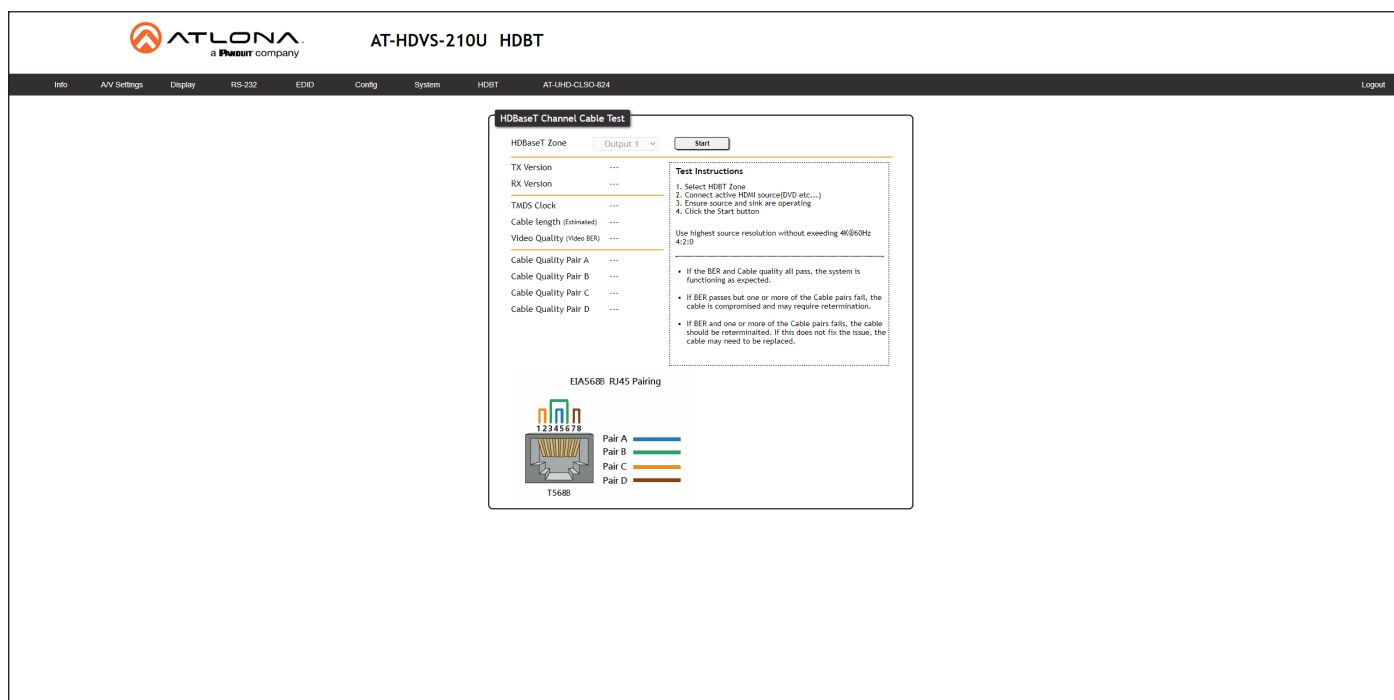
Factory Default

Click this button to reset the AT-HDVS-210U-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-210U-TX-WP. Once the firmware file is selected, click the **Update** button. Refer to [Updating the Firmware \(page 31\)](#) for more information.

HDBT page



HDBaseT Zone

The AT-HDVS-210U-TX-WP has only a single HDBaseT output. Therefore, this drop-down list is disabled.

Start

Click the **Start** button to begin the HDBaseT testing. During testing, the button text will change to “Stop”. Click the **Stop** button to halt the HDBaseT testing process.

TX Version

The version of the Valens chip on the transmitter.

RX Version

The version of the Valens chip on the receiver.

TMDS Clock

Displays the pixel clock speed. If no source is connected, then this field will display as “None”.

Cable length (Estimated)

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

Video Quality (Video BER)

The Bit Error Rate (BER). This field displays either PASS or FAIL during a test.

Cable Quality Pair (A, B, C, D)

Each of these fields will display either PASS or FAIL during a test.

Appendix

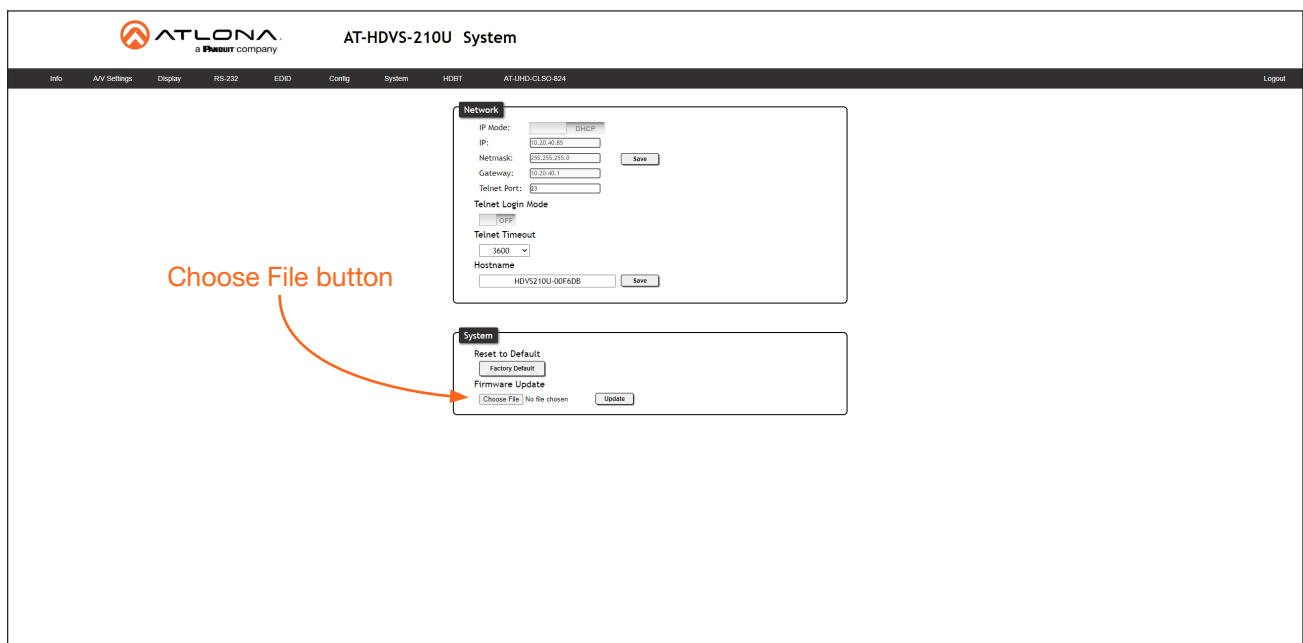
Updating the Firmware

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-210U-TX-WP firmware can be updated using a USB-A to USB mini-B cable.

Using the Web GUI

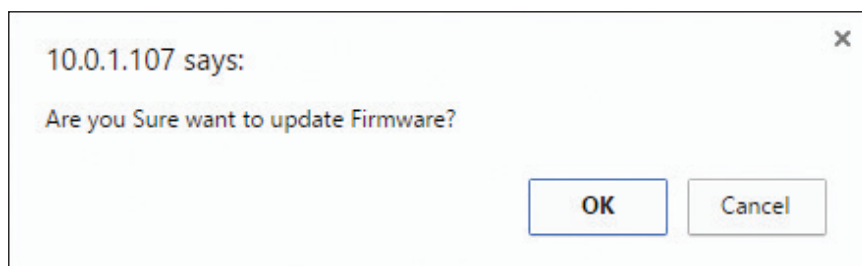
Requirements:

- AT-HDVS-210U-TX-WP
 - Firmware file
 - Computer
1. Connect an Ethernet cable from the computer, containing the firmware, to the same network where the AT-HDVS-210U-TX-WP is connected.
 2. Go to the **System** page (page 28) in the web GUI.

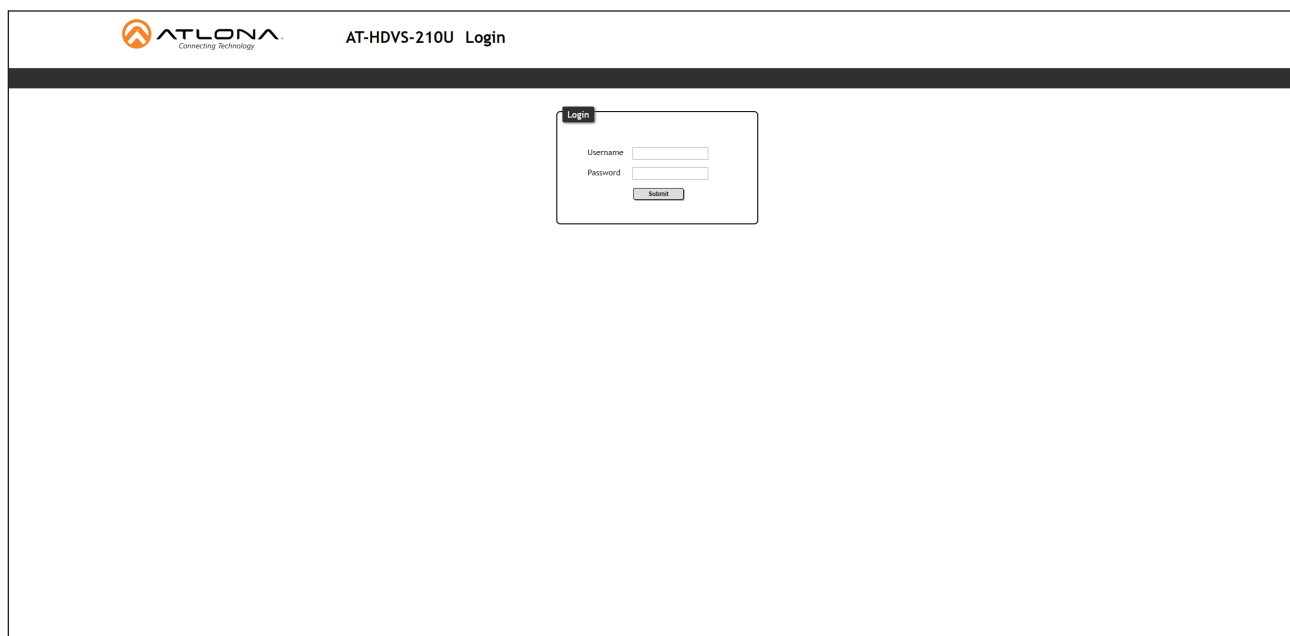


3. Click the **Choose File** button, under the **Firmware Update** section.
4. Browse to the location of the firmware file, select it, and click the **Open** button.
5. Click the **Update** button, under the **Firmware Update** section.

6. The following message box will be displayed.



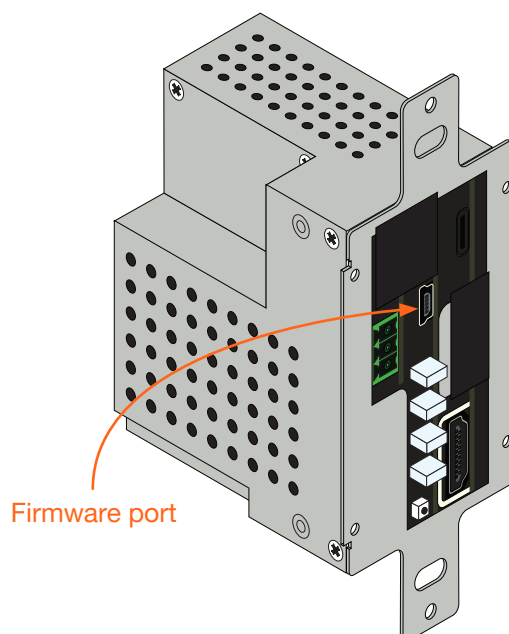
7. Click the **OK** button to begin the firmware update process. Click the **Cancel** button to cancel the process.
8. After the firmware update process is complete, the **Login** screen will be displayed.



Using USB

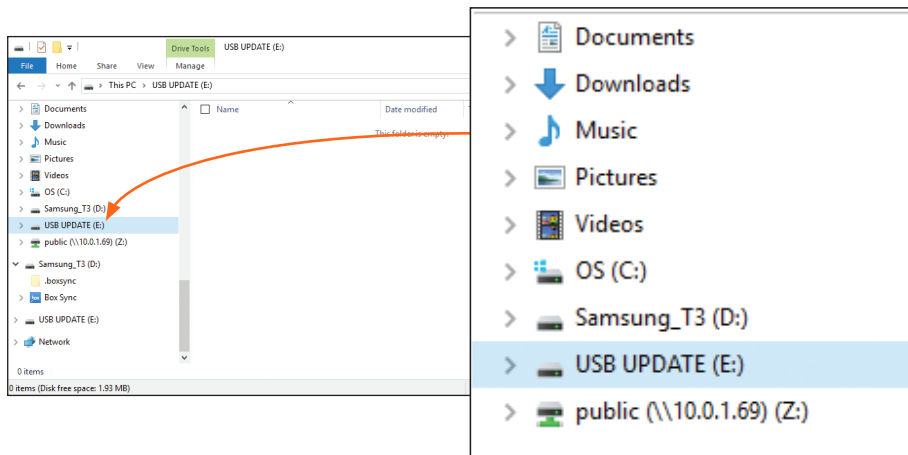
Requirements:

- AT-HDVS-210U-TX-WP
 - Firmware file
 - Computer running Windows
 - USB-A to USB mini-B cable
1. Disconnect power from the AT-HDVS-210U-TX-WP, by disconnecting the Ethernet cable from the **HDBaseT OUT** port on the unit.
 2. Remove the wall plate from the AT-HDVS-210U-TX-WP. Refer to [Faceplate Removal and Assembly \(page 13\)](#) if necessary.
 3. Locate the firmware port.



4. Connect the USB-A to USB mini-B cable between the PC and the firmware port on the AT-HDVS-210U-TX-WP. The unit will be powered by the USB cable.
5. The USB UPDATE folder will be displayed.

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



6. Delete all files from the USB UPDATE drive, if any are present.
7. Drag-and-drop the firmware file to the drive.
8. After the file has been copied, disconnect the USB cable from both the computer and the AT-HDVS-210U-TX-WP.
9. The firmware update process is complete.
10. Reconnect the Ethernet cable to the **HDBaseT OUT** port.

Default Settings

The following tables list the factory-default settings for the AT-HDVS-210U-TX-WP.

Feature	Settings	
A/V Settings	Input Selection	Input 1
	Auto Switch Mode	ON
	Fallback Port	Previous
	Fallback Time	5 (seconds)
	HDCP Setting (Input 1)	ON
	HDCP Setting (Input 2)	ON
	Audio Output	ON
System Settings	Display Auto Power On	Disabled
	Display Auto Power Off	Disabled
	Lamp Cool Down Timer	5 (seconds)
	Auto Power Off Timer	15 (seconds)
	Power On Delay Timer	5 (seconds)
	Control Type	RS-232
	Feedback Verify	ON
	Display Mode	DispSW AVon
	IP Mode	Non-Login
	IP Address	255.255.255.255
	Port	65535
RS-232	Zone	
	Baud rate	115200
	Data bit	8
	Parity	None
	Stop bit	1
	TX RS-232	
	Baud rate	115200
	Data bit	8
	Parity	None
	Stop bit	1
	RX RS-232 Zone 1	
	Baud rate	9600
	Data bit	8
	Parity	None
	Stop bit	1
EDID	Input 1	Default (1920x1080p @ 60 Hz)
	Input 2	Default (1920x1080p @ 60 Hz)
	Output	---
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	300 (seconds)
	Broadcast	ON
	Power	ON

Specifications

HDMI	1 - Type A, 19-pin female
USB-C*	1 - USB Type-C v3.1, 24-pin, female
RS-232	1 - 3-pin captive screw
HDBaseT OUT	1 - RJ45
Reset button	1 - momentary, tact-type
PWR	1 - LED, green
LINK	1 - LED, green
USB-C	1 - LED, green
HDMI	1 - LED, green

* This port *does not* support charging of external devices.

Video	
UHD/HD/SD	4096x2160@24/25/30/50*/60Hz*, 3840x2160@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	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x768, 1024x768, 800x600, 640x480
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit

Audio	
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	15	5	30	10
CAT5e / CAT6	230	70	330	100
CAT6a / CAT7	330	100	330	100

Signal	
Bandwidth	10.2 Gbps
HDMI	2.0
CEC	Yes
HDCP	2.2

Temperature	Fahrenheit	Celsius
Operating	32 to 104	0 to 40
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 90%, non-condensing	

Appendix

Dimensions	
Wall	1 gang
Weight	
Device	0.4 lbs
	0.18 kg
Certification	
Unit	CE, FCC

Index

A

Audio

muting 23

C

CEC

compatibility 24

Configuration

IP. See IP configuration

Connection

diagram 10

instructions 10

Contents

package 8

Control type

setting 25

Customer support

 3

D

Default settings

 36

Description

front / rear panel 9

E

EDID

presets 28

saving 28

F

Faceplate

removal and assembly 13

Factory-default setting

resetting 16

FCC statement

 6

Features

 8

Firmware

updating

using the web GUI 33

using USB 34

H

HDBT

testing 32

I

Input

selecting 22

Installation

 10

IP configuration

 14, 30

O

Operating notes

 3

P

Panel descriptions

 9

Password

default 18

PoE

compatible receiver 11

power injector 11

R

RS-232

settings 27

S

Safety information

 6

Settings

auto-switching 22

HDCP 23

Specifications

 37

T

Timers

auto-power off 25

power-on delay 25

projector lamp cool-down 24

U

Updating firmware

 33

Users

primary user name 18

W

Warranty

 4

