ATLONA.

A division of **HR**

4K / UHD
Five-Input HDMI Switcher
with Two HDBaseT Inputs
and Mirrored HDMI / HDBaseT Outputs

Version Information

Version	Release Date	Notes
5	Aug 2024	- Minor updates to Updating the Firmware (page 50).

Sales, Marketing, and Customer Support

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Operating Notes

IMPORTANT: Visit https://atlona.com/product/AT-UHD-SW-5000ED for the latest firmware updates and User Manual.

NOTE: The AT-UHD-SW-5000ED no longer ships with an IR remote control. However, IR documentation remains for units currently in the field.

Warranty

To view the product warranty, use the following link or QR code:

https://atlona.com/warranty/

Safety and Certification

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 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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Dolby, Dolby Atmos, and the double-D symbol are registered trademarks of Dolby Laboratories Licensing Corporation.

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Table of Contents

Introduction

The Atlona **AT-UHD-SW-5000ED** is a 5x1 switcher with two HDBaseT™ inputs, three HDMI inputs, mirrored HDMI and HDBaseT outputs, balanced audio outputs, automatic input selection, and advanced display control capability. The HDBaseT inputs match perfectly with the HDVS-200-TX modules to enable VGA and HDMI sources to be easily integrated into a system. The switcher supports 4K/UHD @ 60 Hz, 4:2:0; (10.2 Gbps). It transmits AV signals along with Ethernet, power, and control over a single cable to displays up to 328 feet (100 meters) from the switcher. Control options include automatic input selection, front-panel buttons, and compatibility with IR, RS-232, or TCP/IP-based control systems. Displays are automatically turned on and off using CEC, IP, or RS-232. Advanced features also include a web-based GUI for easy set-up and management of EDID, HDCP, and display control. The switcher offers audio de-embedding of PCM audio over HDMI to two-channel, balanced +4 dBu analog audio outputs. The switcher is a cost-effective product for professional integration featuring a compact, 1U, half-rack width enclosure that is easily installed with included 19" rack-mount brackets. Two units can be mounted side-by-side.

The **AT-UHD-SW-5000ED** enables two HDVS transmitters to be used in a single system. With Ethernet enabled HDBaseT transmission to the HDVS transmitters and the receiver control, setup and maintenance is simplified. Automatic input selection and display control simplify the system, reducing cost, reducing setup time and resulting in a better end user experience.

Features

- Two, Ethernet-enabled HDBaseT Inputs
- Mirrored, dual outputs on HDMI and HDBaseT
- Automatic display control
- Automatic input selection using hot plug detect and video detection technology
- Ethernet-enabled HDBaseT
- EDID management and HDCP management
- 4K/UHD capability
- AV, Ethernet, power and control over HDBaseT
- TCP/IP, RS-232, and IR control
- Easy, GUI-based configuration using integrated web server
- Volume controls
- Volume setting indicator
- Balanced, line level output
- Multi-channel audio compliant
- Rack-mountable, 1U, half rack width enclosure
- Works with Velocity with Integrated AMS

Package Contents

1 x AT-UHD-SW-5000ED
2 x 5-pin captive screw connectors
1 x 3-pin captive screw connector
1 x 2-pin captive screw connector
1 x Rack ears set, 1-long, 1 short, 2 table mount
4 x Rack ears screws
1 x 48 V / 1.25 A DC power supply
1 x power cord

Panel Description

Front Panel

1   2   3   4   5
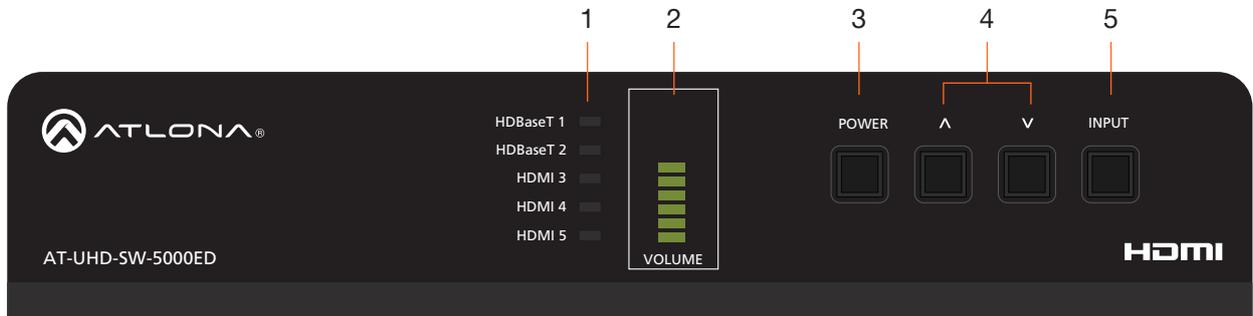
1   **Input LED Indicators**
These LED indicators display which input is routed to the **HDMI OUT** port. A solid blue indicator represents the active input being used

2   **VOLUME**
Displays the output audio level. Refer to for more information.

3   **POWER**
Press this button to toggle between "on" and "standby" power states. When in "standby", A/V is muted. When "on", A/V muting will be disabled.

4   **Cursor Buttons**
Press and release these buttons to increase or decrease the audio output volume on the **ANALOG OUT** port.

5   **INPUT**
Press and release this button to cycle through each of the inputs.

Rear Panel
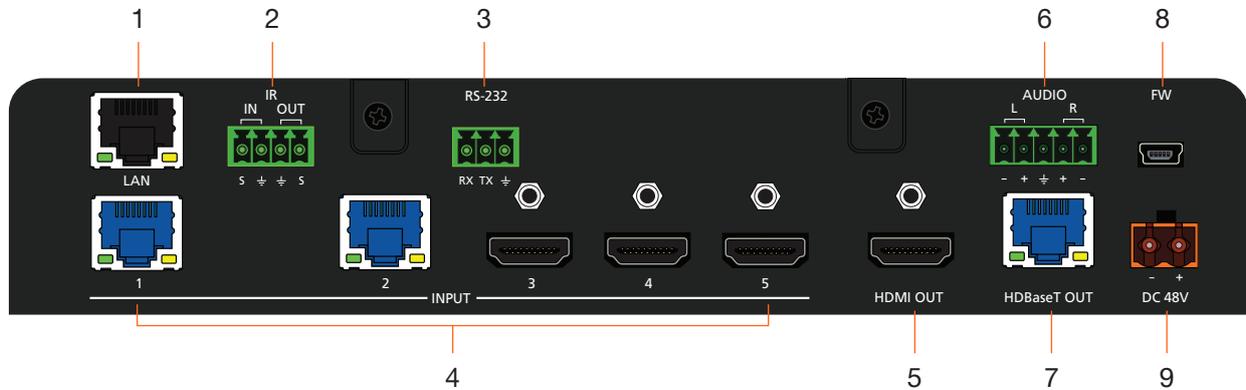
1   **LAN**
    Connect an Ethernet cable from this port to the Local Area Network (LAN). The AT-UHD-SW-5000ED includes a built-in web server, which can be used to manage and configure the product.

2   **IR IN/OUT**
    Connect the included 4-pin captive screw block to this port.

3   **RS-232**
    Connect the included 3-pin captive screw block to an RS-232 controller to control the AT-UHD-SW-5000ED.

4   **INPUT**
    Connect an category cable (CAT-5e or better) from **INPUT 1** and **INPUT 2** to HDBaseT transmitters. Connect an HDMI cable from **INPUT 3**, **INPUT 4**, and **INPUT 5** to UHD/HD HDMI sources.

5   **HDMI OUT**
    Connect an HDMI cable from this port to an HD/UHD display.

6   **AUDIO**
    Connect an audio output device to this port using the included captive screw block. Refer to Audio (page 10) for information on wiring.

7   **HDBaseT OUT**
    Connect a category cable from this port to a the HDBaseT IN port of a compatible receiver unit.

8   **FW**
   Connect a USB-to-mini USB cable to this port from a computer for firmware updates.

9   **DC 48V**
    Connect the included 48 V DC power supply from this power receptacle to an available AC electrical outlet. Refer to Power (page 10) for more information on wiring the included captive screw connector.

Installation

Power

Connect the included 2-pin captive screw connector to the **DC 48V** power receptacle on the rear of the unit. Insert the positive and negative leads, from the power supply, into the terminals of the 2-pin captive screw connector block, as shown.
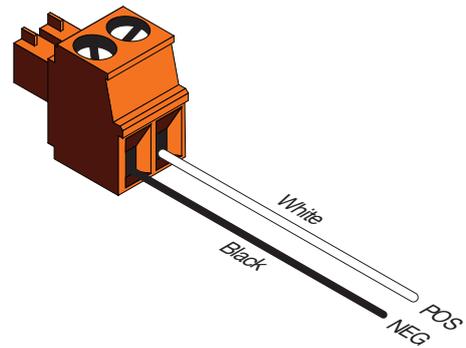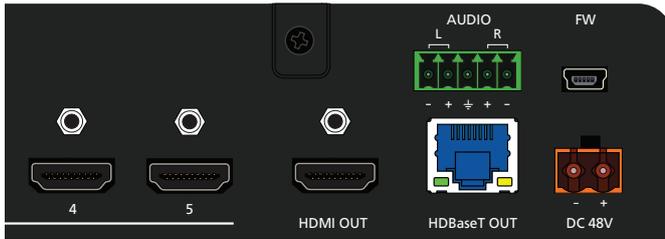

Audio

The **AUDIO OUT** connector on the AT-UHD-SW-5000ED provides a separate output for balanced audio. Connect the included 5-pin captive-screw terminal block to the **AUDIO OUT** port. Balanced audio connections use two signal wires and a ground to minimize interference in audio signals. Unbalanced output audio is not supported.
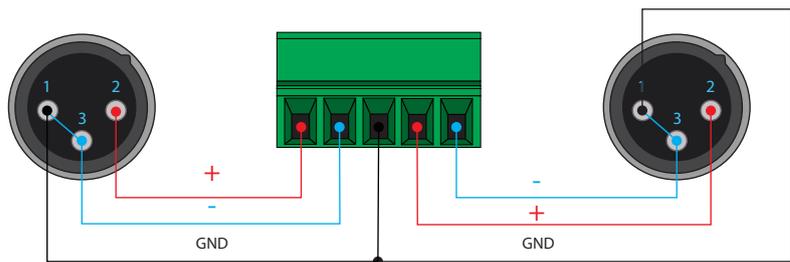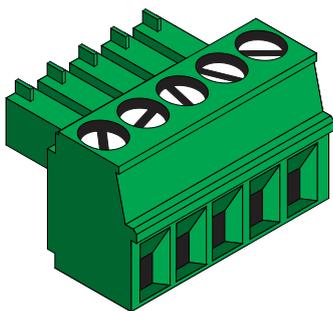
RS-232

The AT-UHD-SW-5000ED provides an **RS-232** port which can be used to control a display connected to an HDMI output. Atlona recommends controlling the AT-UHD-SW-5000ED using IP and reserving the **RS-232** port for local display control.

1. Use wire strippers to remove a portion of the cable jacket.

2. Remove at least 3/16" (5 mm) of insulation from each of the wires.

3. Insert the wires into correct terminal using the included 3-pin captive screw connector.

4. Attach the 3-pin connector block to the **RS-232** port on the AT-UHD-SW-5000ED.

TX

RX

GND
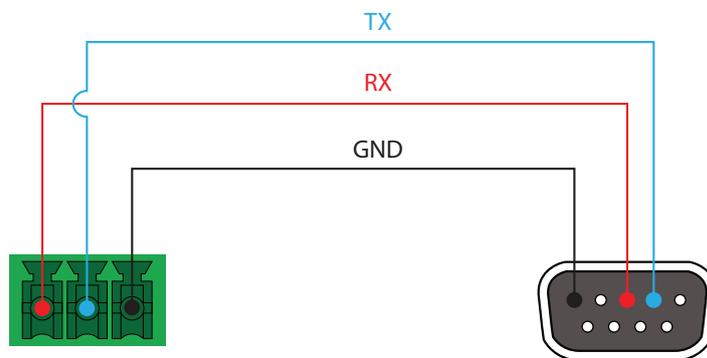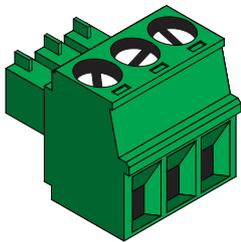
Connection Instructions

1. Connect up to two HDBaseT transmitters to **INPUT 1** and **INPUT 2**. Atlona recommends CAT-5e or better cabling.

2. Connect up to three UHD/HD HDMI sources to ports **INPUT 3** through **INPUT 5.**

3. Connect an HDMI cable from the **HDMI OUT** port to a UHD/HD display.

4. Connect a category cable (CAT-5e or better) from the **HDBaseT OUT** port to a compatible receiver.

   Refer to the tables below for recommended cabling when using Altona 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 tables are for guidance, only. Performance may vary, based on environmental factors.*

Core	Shielding	CAT5e	CAT6	CAT6a	CAT7
Solid	UTP (unshielded)	▪	▪▪▪	▪▪▪▪	N/A
	STP (sheilded)	▪▪	▪▪▪▪	▪▪▪▪▪	▪▪▪▪▪

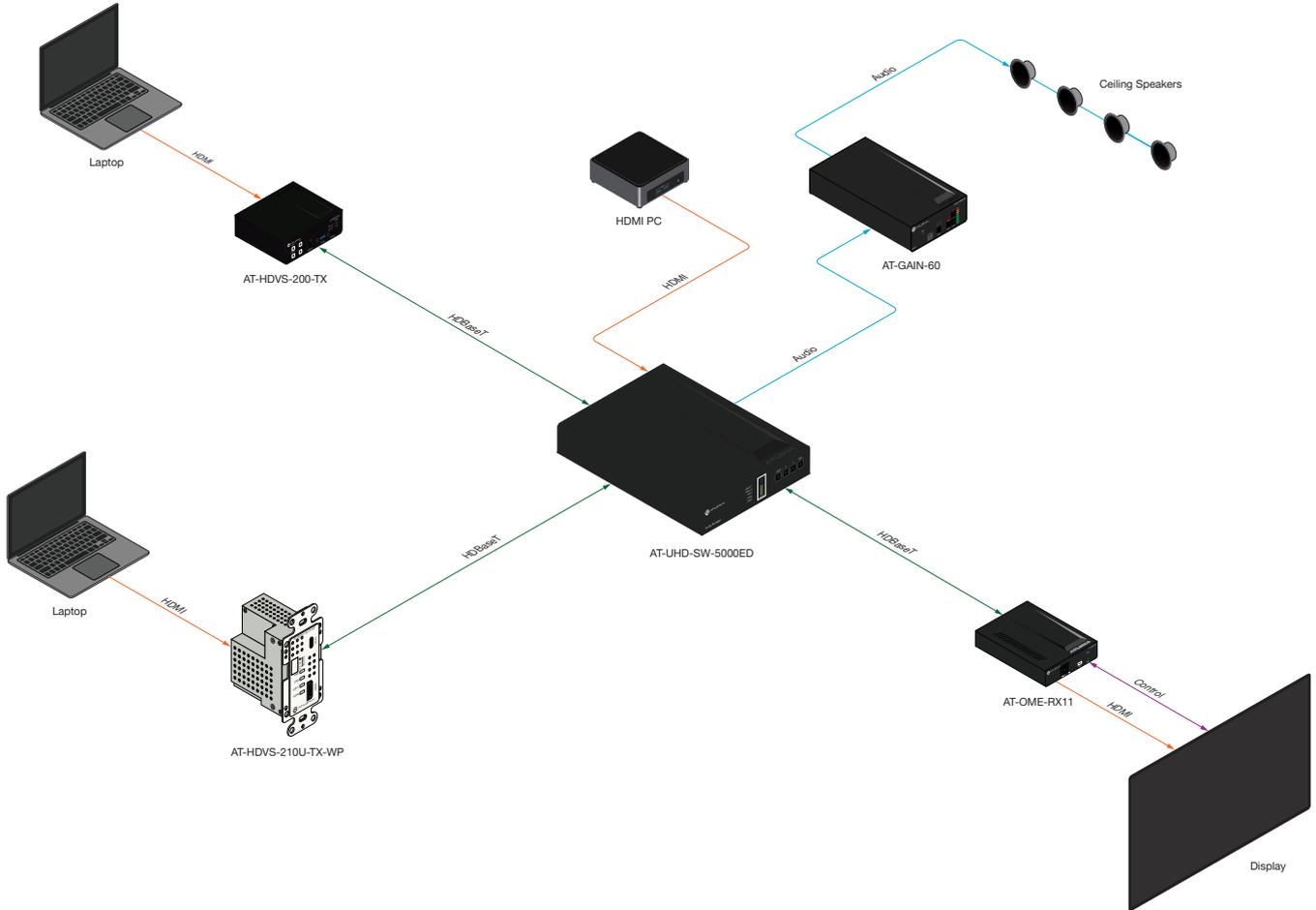| Cable	Max. Distance @ 4K	Max. Distance @ 1080p
CAT5e	295 feet (90 meters)	330 feet (100 meters)
CAT6a / CAT6a / CAT7	330 feet (100 meters)	330 feet (100 meters)

⚠️ **IMPORTANT:** Stranded or patch cable is not recommended due to performance issues. Sheilded cables are strongly recommended to minimize signal noise and interference.
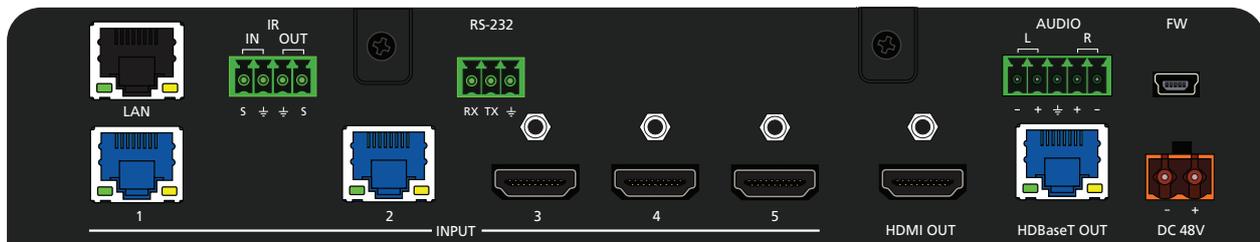
5. Connect an Ethernet cable from the **LAN** port to the Local Area Network (LAN).

6. OPTIONAL: Connect the included 5-pin captive screw connector to the **AUDIO OUT** port.

7. OPTIONAL: Connect the included 4-pin captive screw connector to the **IR IN/OUT** port.

8. OPTIONAL: Connect the included 3-pin captive screw block to the **RS-232** port.

9. Connect the included power supply to the **DC 48V** connector and connect the power cord to an available electrical outlet. Refer to for more information.

Connection Diagram

Laptop

AT-HDVS-200-TX

HDMI

HDBaseT

Laptop

HDMI

HDBaseT

AT-HDVS-210U-TX-WP

HDMI PC

HDMI

Audio

AT-UHD-SW-5000ED

AT-GAIN-60

Audio

Ceiling Speakers

HDBaseT

AT-OME-RX11

Control

HDMI

Display

IP Configuration

The AT-UHD-SW-5000ED is shipped with DHCP enabled. Once connected to a network, the DHCP server (if available), will automatically assign an IP address to the unit. If the AT-UHD-SW-5000ED is unable to detect a DHCP server within 15 seconds, then the unit will use a self-assigned IP address within the range of `169.254.xxx.xxx`.

Use an IP scanner, along with the MAC address on the bottom of the unit, to identify the unit on the network. If a static IP address is desired, the unit can be switched to static IP mode. The default static IP address is `192.168.1.254`.

Setting the IP Address using the Web Server

The AT-UHD-SW-5000ED can be set to either DHCP or static IP mode. If changing the IP mode through the built-in web server, the IP address of the AT-UHD-SW-5000ED must be known. By default, the AT-UHD-SW-5000ED is set to DHCP mode and will automatically be assigned an IP address by a DHCP server. Refer to the Changing the Network IP Mode (page 17) for more information.

Auto IP (APIPA) Mode

If the AT-UHD-SW-5000ED is unable to detect a DHCP server within 15 seconds, then the unit will use a self-assigned IP address within the range of `169.254.xxx.xxx`. If this occurs, connect the AT-UHD-SW-5000ED to a computer running Microsoft Windows® and follow the procedure below.

1. Click **Start** > **Settings** > **Control Panel** > **Network and Sharing Center**.

2. Click **Change adapter settings**.

3. Right-click on the adapter that is used to establish a wired connection to the network, and select **Properties** from the context menu.

4. Under the **Ethernet Properties** dialog box, select **Internet Protocol Version 4** and then click the **Properties** button.

5. Click the **Use the following IP address** radio button.

   ⚠️ **IMPORTANT:** Before continuing, write down the current IP settings in order to restore them, later. If **Obtain an IP address automatically** and **Obtain DNS server automatically** are selected, then this step is not required.

6. Enter the desired static IP address or the IP address provided by the network administrator. If the PC does not require Internet access or if a statically-assigned IP address is being used, then an IP address of `169.254.xxx.xxx` can be entered.

7. Set the subnet mask to `255.255.0.0`.

8. Click the **OK** button then close all **Control Panel** windows.

Device Operation

LED Indicators

The LED indicators on both the front and rear of the unit provide basic information on the current status of the AT-UHD-SW-5000ED.

LED			Description
HDBaseT 1, HDBaseT 2, HDMI 3 - HDMI 5	Solid green		The input is the currently selected (active) input.
	Off		The input is not the active input.
VOLUME	Solid green		Acceptable range for output volume.
	Solid amber		Output volume level is approaching audio clipping.
	Solid red		Audio clipping.
POWER	Solid blue		Unit is powered and in normal operating mode. A/V muting is disabled.
	Solid red		Unit is powered and in standby mode. In this mode, A/V will be muted. • Press the **POWER** button to place the unit in normal operating mode.
	Off		Unit is not powered. • Check the power supply and make sure it is securely fastened to the captive screw connector on the rear of the unit. • Make sure that the power supply is connected to an available electrical outlet and that the outlet is "live" (some outlets are controlled by a wall switch).

System Configuration

The AT-UHD-SW-5000ED provides easy access to system configuration through the built-in web server, and is the recommended method to adjust network settings.
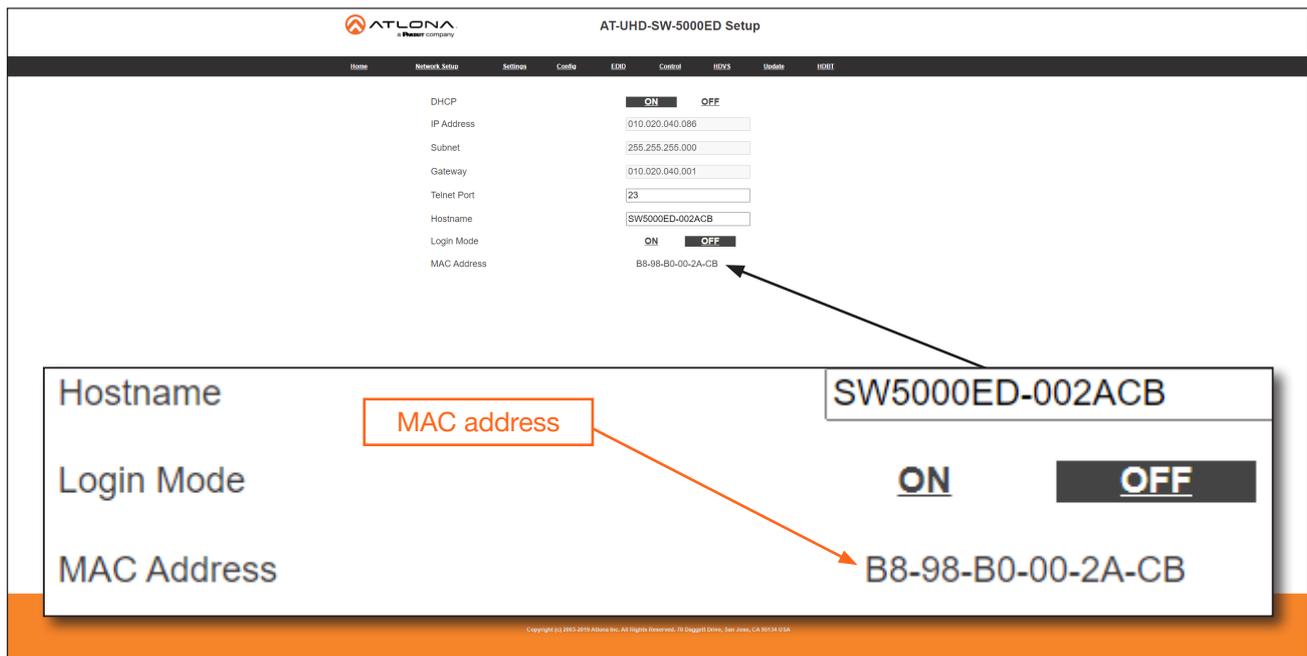
NOTE: When a setting within the **Network Settings** page is being modified, the background color will switch from white to gray. This indicates that a setting is being changed.

Getting the MAC Address

1. Login to the web server. Refer to . The default username and password are listed below:

   Username: root
   Password: Atlona

2. Click **Network Setup** in the menu bar.

3. Locate the MAC address field, as shown below. This is the hardware address of the AT-UHD-SW-5000ED.

Changing the Network IP Mode

By default, the AT-UHD-SW-5000ED is set to DHCP mode. Once connected to a network, and if a DHCP server is found (or available), the AT-UHD-SW-5000ED will be assigned an IP address on the network, and no further network configuration is required. However, if the AT-UHD-SW-5000ED is unable to detect a DHCP server within 15 seconds, then the unit will use a self-assigned IP address within the range of 169.254.xxx.xxx. The instructions below will focus on setting the AT-UHD-SW-5000ED to static IP mode.

⚠️ **IMPORTANT:** Before assigning a static IP address to the AT-UHD-SW-5000ED, it is recommended to consult with the network or system administrator and obtain a available IP address. If the AT-UHD-SW-5000ED is assigned an IP address which is already in use by another device, it may cause either network issues and/or the AT-UHD-SW-5000ED will be not accessible.

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

   Username: root
   Password: Atlona

2. Click **Network Setup** in the menu bar.

3. Locate the **DHCP** section at the top of the page. The default setting is **ON**.

4. Click the **OFF** button to set the AT-UHD-SW-5000ED to static IP mode.

5. Enter the desired IP address for the AT-UHD-SW-5000ED in the **IP Address** field.

6. Enter the subnet mask and gateway address in the **Subnet** and **Gateway** fields, respectively.

7. Click **Save Setting** to commit changes. Click **Cancel** to abort changes. Changes will take effect immediately.

Setting Static IP Mode using the Front Panel

By default, the AT-UHD-SW-5000ED is set to DHCP mode. Once connected to a network, and if a DHCP server is found (or available), the AT-UHD-SW-5000ED will be assigned an IP address on the network, and no further network configuration is required. However, in some cases, a static IP assignment may be desired. This procedure can be done through the web server (see previous page) or by using the front-panel buttons, as shown below.

1. Verify that the AT-UHD-SW-5000ED is powered.

2. Press and hold the **INPUT** button for 15 seconds, then release the button.
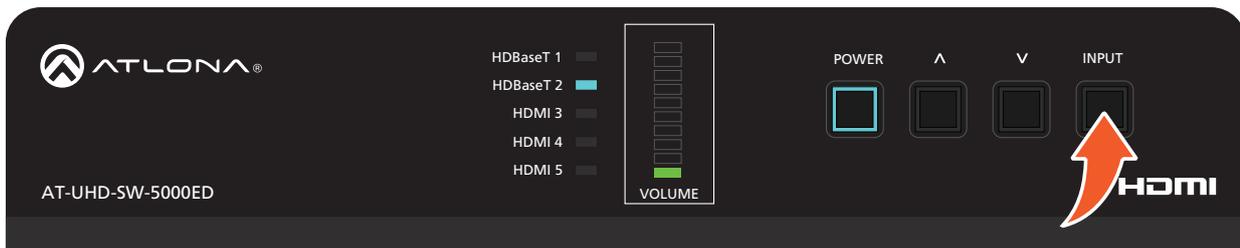
3. The **POWER** button will flash four times to indicate that the AT-UHD-SW-5000ED is in static IP mode. The following IP settings are assigned, automatically:

    IP Address: 192.168.1.254
    Subnet: 255.255.0.0
    Gateway: 192.168.1.1

Changing the Telnet Port

Typically, the Telnet service is assigned to TCP port 23. This is the default setting for the AT-UHD-SW-5000ED. However, depending upon the network environment, the default Telnet port can be changed.

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Network Setup** in the menu bar.

3. Locate the **Telnet Port** field and enter the desired port in the field.

Gateway	010.020.040.001
Telnet Port	23
Hostname	SW5000ED-002ACB

4. Click **Save Settings** to commit changes. Click **Cancel** to abort changes.

Telnet Login Mode

When a Telnet session is requested, the AT-UHD-SW-5000ED provides the option to prompt for user credentials or bypass authentication before the Telnet session begins. Prompting for credentials can be enabled or disabled. When prompting for user credentials, use the same login information required by the built-in web server.

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Network Settings** in the menu bar.

3. Click the **Login Mode** button to **ON** or **OFF**.

    - Set this button to **ON** to prompt for user credentials.

    - Set this button to **OFF** to bypass user credentials request.

4. Click **Save Setting** to commit changes. Click **Cancel** to abort changes.

Setting the Host Name

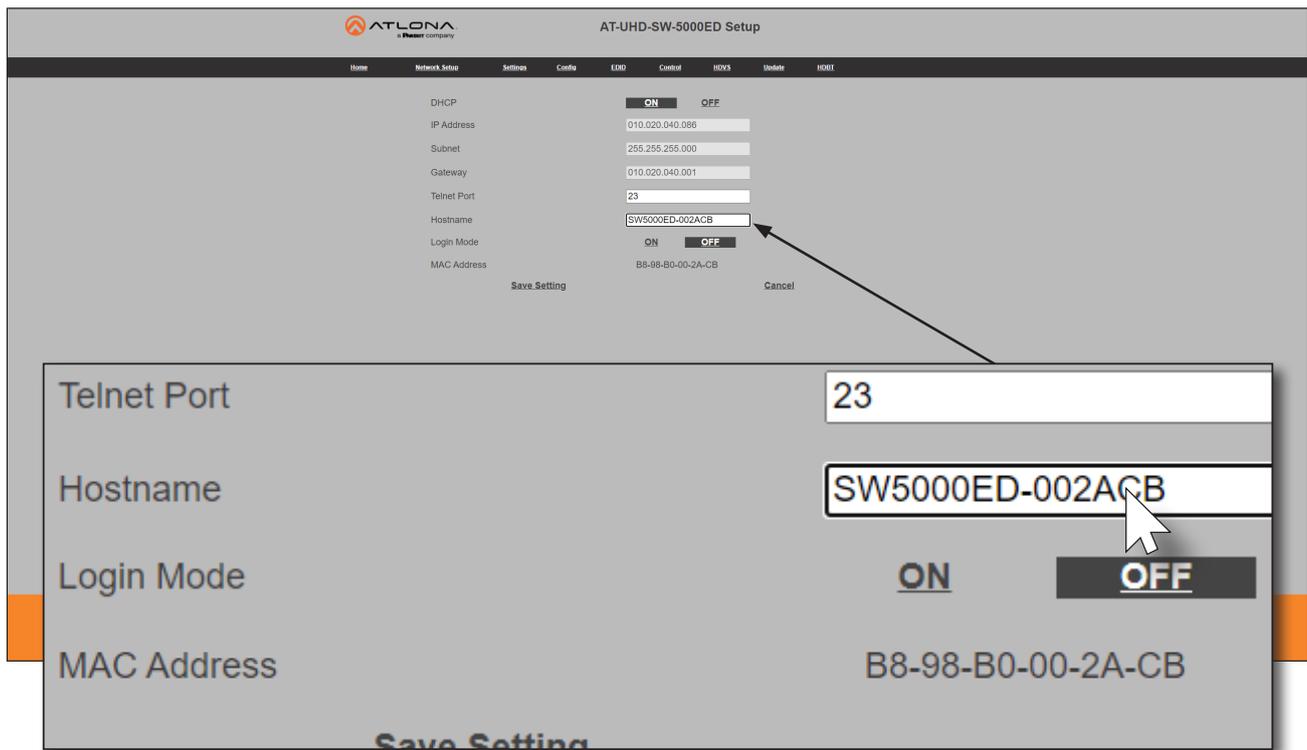By default, the AT-UHD-SW-5000ED is assgned a hostname, which is constructed as follows:

SW52ED-[last six digits of MAC address]

For example, a default hostname might look like this: SW52ED-006154. This value can be changed to easily identify the AT-UHD-SW-5000ED within the Atlona Management System (AMS) or a network. If using a custom hostname, it must meet the hostname standards defined here: https://tools.ietf.org/html/rfc1123
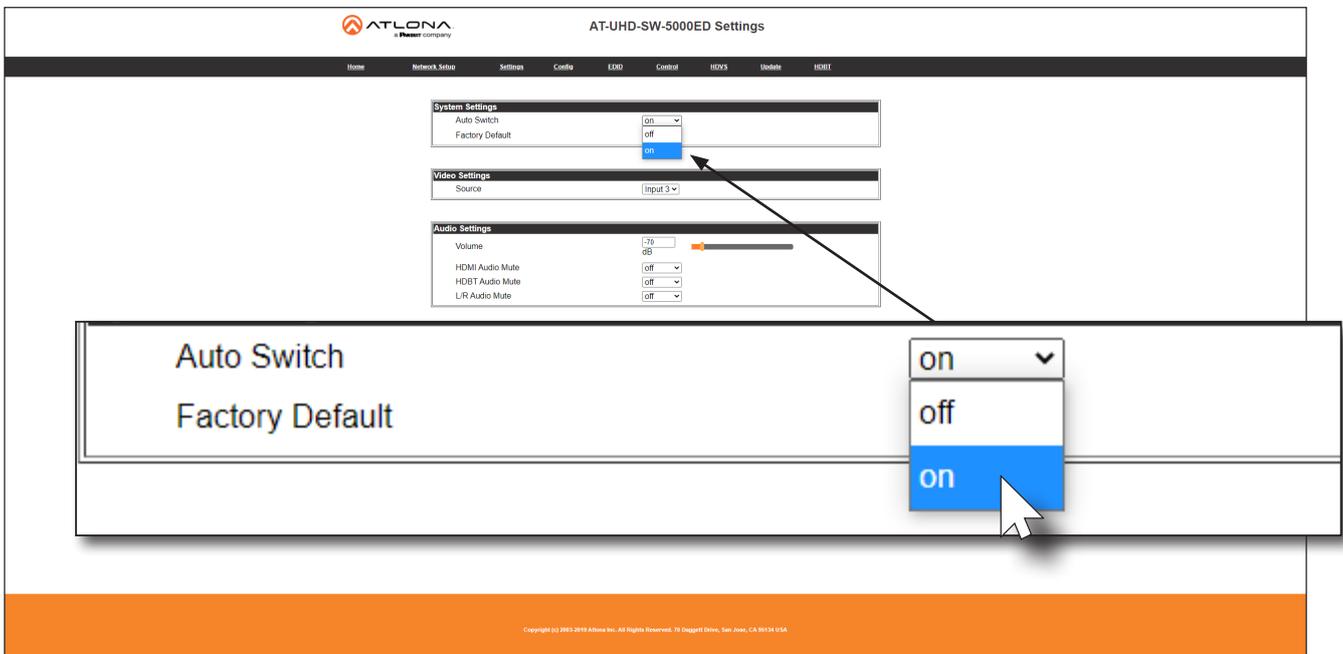
1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Network Settings** in the menu bar.

3. Click the **Hostname** field and enter the desired name.

4. Click **Save Setting** to commit changes. Click **Cancel** to abort changes.

Video Switching

Enabling / Disabling Auto-Switching

The AT-UHD-SW-5000ED provides auto-switching capability, which is enabled by default. This feature will automatically switch the input to the most recently-connected source. If a source is disconnected, then the input will automatically be switched to the previously-connected source.

By default, auto-switching is enabled on the AT-UHD-SW-5000ED, allowing the unit to automatically switch between inputs when sources are connected or disconnected.

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

   Username: root
   Password: Atlona

2. Click **Settings** in the menu bar.

3. Click the **Auto Switch** drop-down list and select **On** to enable auto-switching. Auto-switching is disabled by default. If auto-switching is not desired, select **Off** from the drop-down list.

   NOTE: The AT-UHD-SW-5000ED retains the currently selected input, even after the unit is powered-off then powered-on.

4. Auto-switching configuration is complete.

Selecting the Input

The active input can be selected from the front panel, the built-in web server, or an API call. Refer to the AT-UHD-SW-5000ED Application Programming Interface for more information.
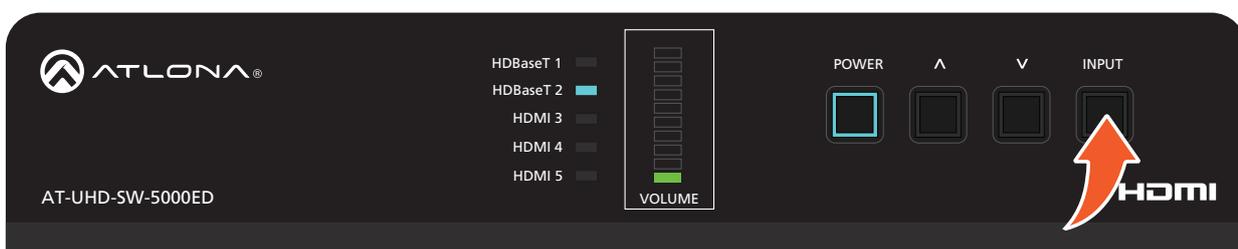
1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Settings** in the menu bar.

3. Click the **Auto Switch** drop-down list and select **On** to enable auto-switching. Auto-switching is disabled by default. If auto-switching is not desired, select **Off** from the drop-down list.
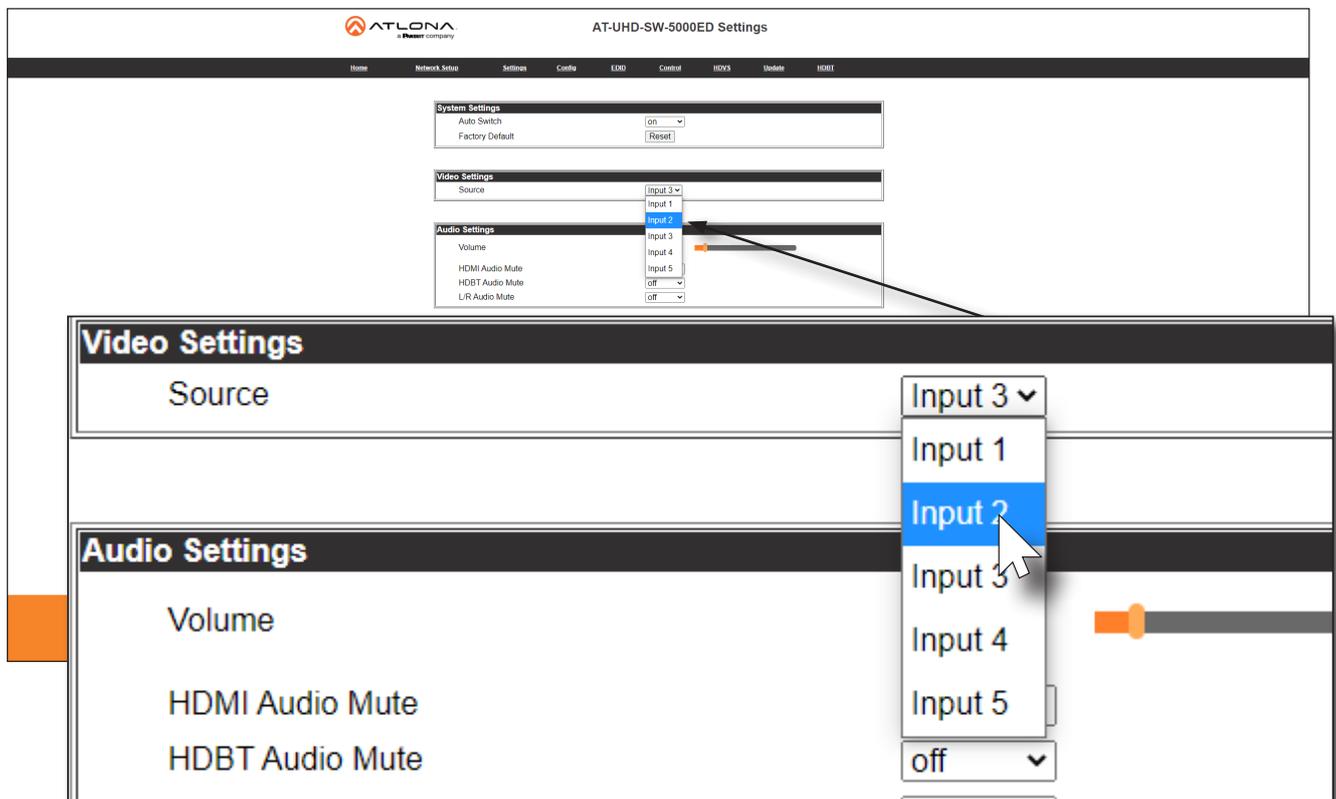
4. Selection of the active input is complete.

5. To select the input using the front panel buttons, press and release the **INPUT** button to cycle through each of the available inputs on the unit.

Resetting to Factory-Defaults

The following procedure will reset the AT-UHD-SW-5000ED to factory-default settings. The network IP mode will be set to DHCP mode.
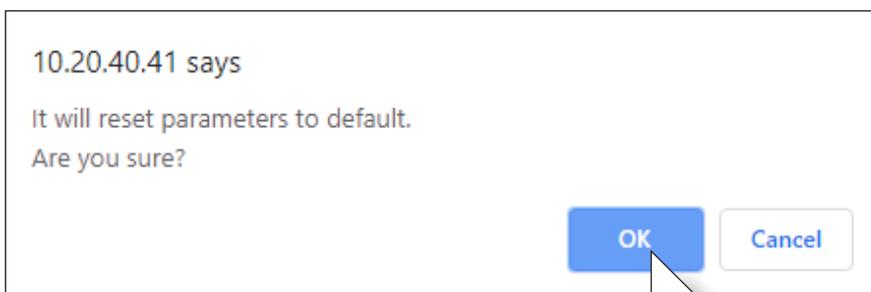
Using the Web Server

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Settings** in the menu bar.

3. Click the **Reset** button, next to **Factory Default**.
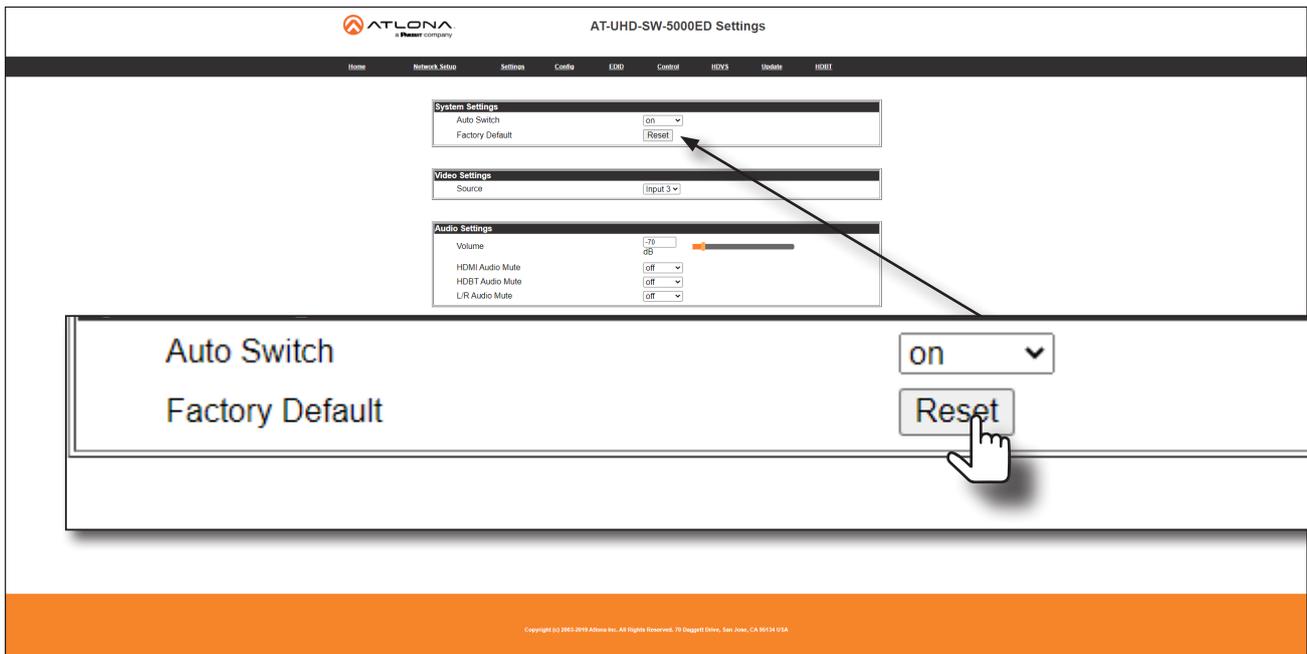

4. The following message will be displayed at the top of the screen. Click **OK** to continue with the factory-default reset procedure. Click **Cancel** to abort the process.

5. Once the factory-default process is complete, the web server **Login** screen will be displayed.

6. The factory-reset process is complete.

Using the Front Panel

1. Verify that the AT-UHD-SW-5000ED is powered.

2. Simultaneously *press and hold* the **INPUT** and **POWER** buttons for 15 seconds.

3. The input indicator will switch to **HDBaseT 1**.
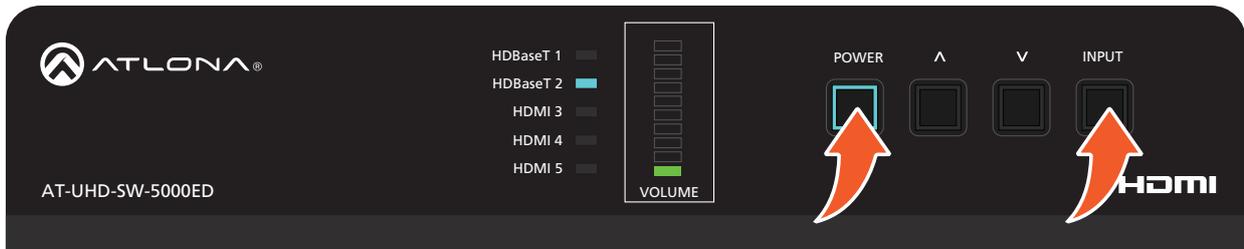
4. Factory reset is complete.

Audio Management

The AT-UHD-SW-5000ED provides volume control and independent audio muting. Audio muting can be controlled on **HDMI OUT**, **HDBaseT OUT**, and **ANALOG OUT** ports. To de-embed the source audio on the **ANALOG OUT** port, connect the included 5-pin captive screw connector to the **ANALOG OUT** port. De-embedding audio is restricted to multichannel Linear PCM formats. Audio output is always downmixed to two-channel stereo.

Adjusting Output Volume

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Settings** in the menu bar.

3. Under **Audio Settings**, click and drag the Volume slider to adjust the audio output level. The current output volume, in decibels, will be displayed in the Volume field, next to the slider bar. Audio output level can be set within the range of -80 dB to +15 dB. The default settings is 0 dB.
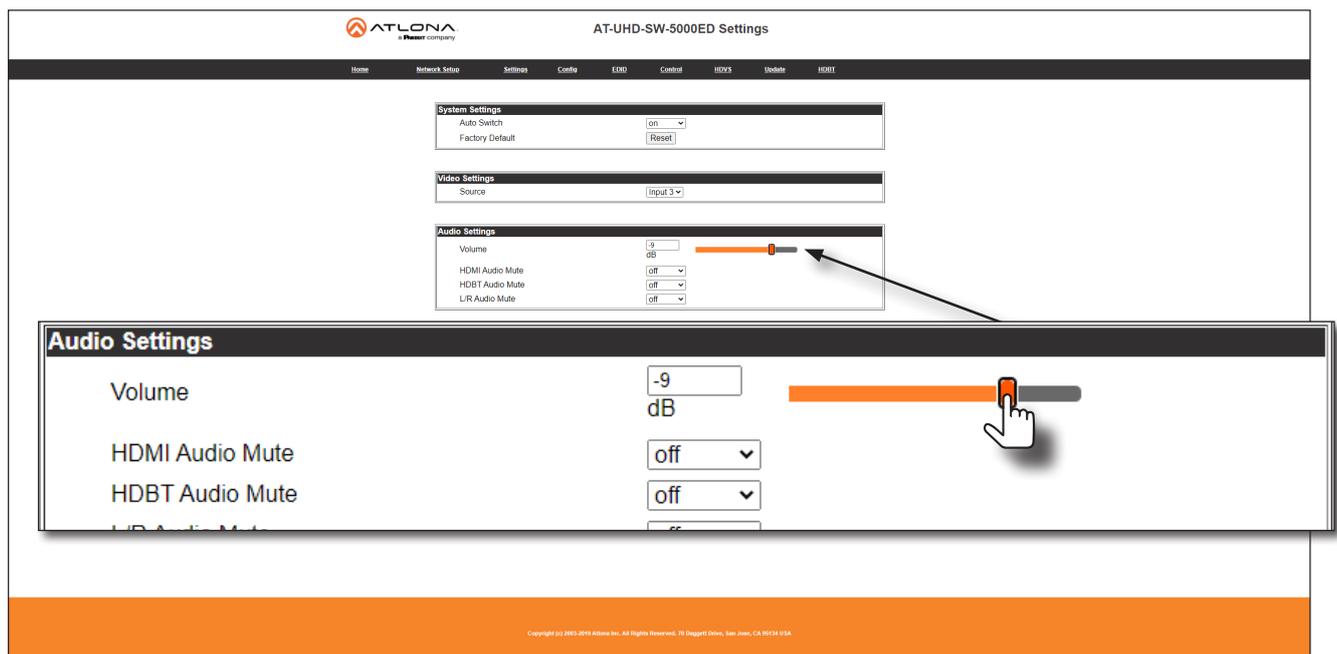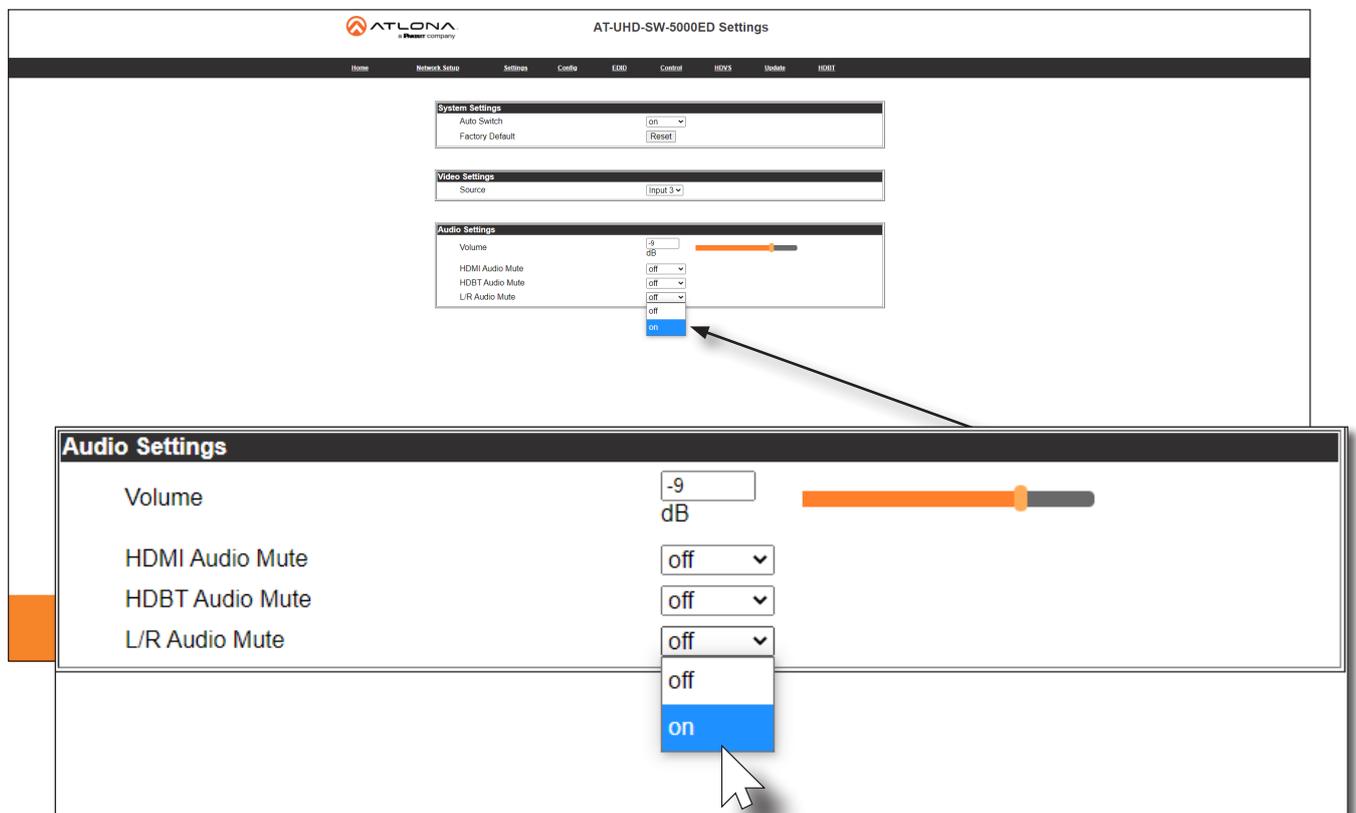

4. Output audio level adjustment is complete.

Audio Output Muting

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

   Username: root
   Password: Atlona

2. Click **Settings** in the menu bar.

3. Locate the **Audio Settings** section.

4. Click the drop-down list for the desired output. For example, to mute the audio output on the **ANALOG OUT** port, click the **L/R Audio Mute** drop-down list and select **on**. To re-enable the audio for that output, select **off** from the drop-down list.
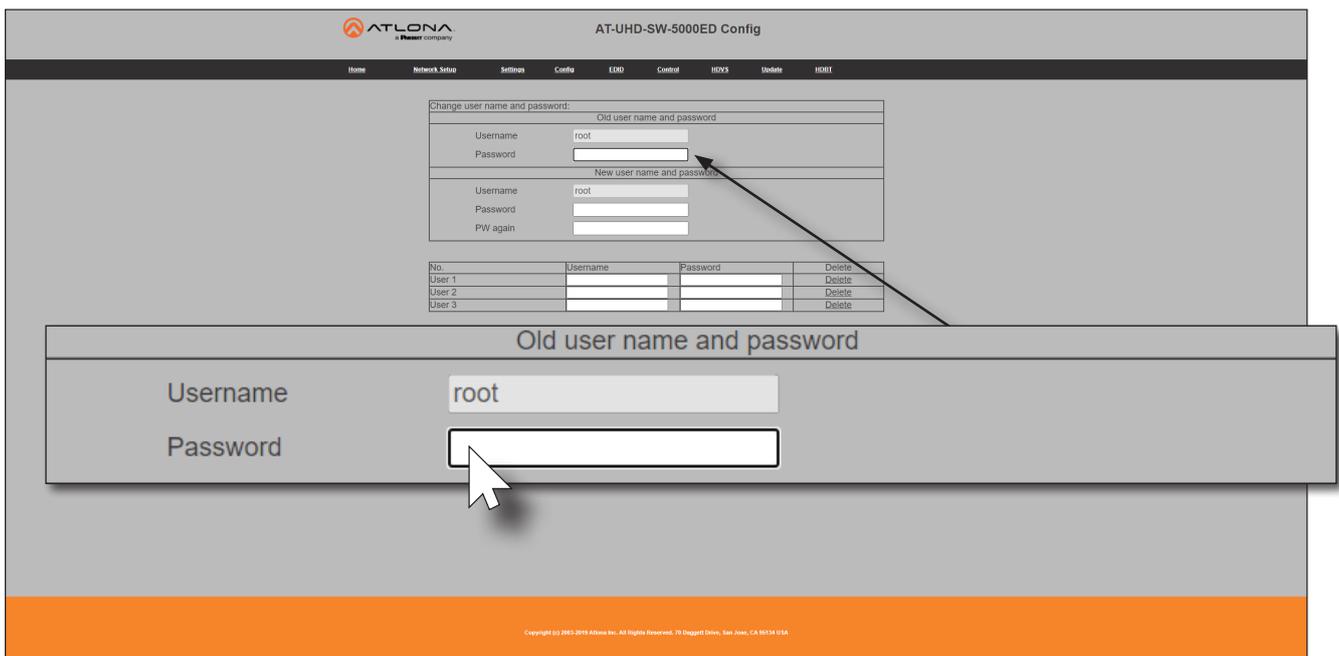
User Management

The AT-UHD-SW-5000ED allows the administrator password to be changed. The password applies to both the web server and Telnet sessions. Note that the **Username** field cannot be changed. All users have the same level of access to control the AT-UHD-SW-5000ED. However, only the **root** user is allowed to manage other users. Up to three additional users can be created.

Changing the Administrator Password

1. Login to the web server. Refer to . The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Config** in the menu bar.

3. Click the **Password** field and enter the current password.

4. Under the **New user name and password** section, enter the new password in the **Password** field.

5. Verify the new password by entering it in the **PW again** field.

6. Click the **Save Settings** to commit changes. To login with the new username, close the web session, then enter the new password on the **Login** page.

> **NOTE:** Password fields will always be masked for security purposes.

Adding Users

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

   Username: root
   Password: Atlona

2. Click **Config** in the menu bar.

3. Enter the desired username and password for the desired user field: **User 1**, **User 2**, and **User 3**.

4. Click **Save Setting** to commit changes.

5. To login with the new username, close the web session, then enter the username and password on the **Login** page.
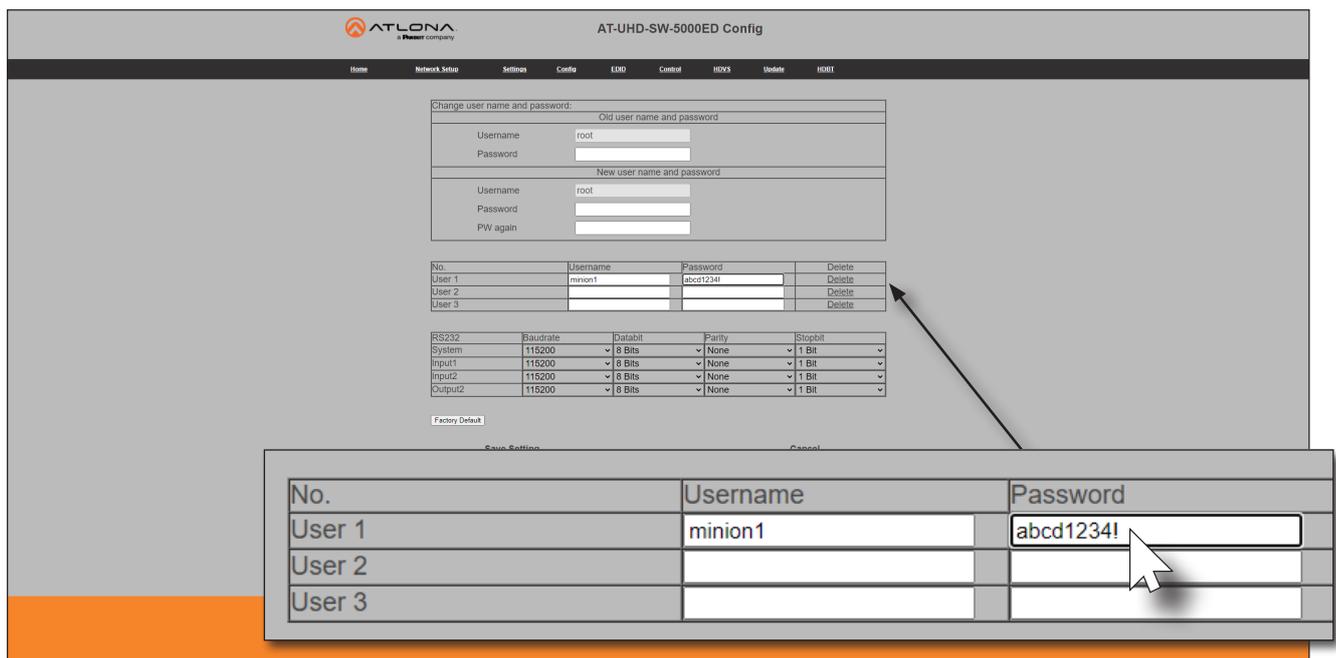
Editing / Deleting Users

The username and password of a user can be changed using this method.

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **Config** in the menu bar.
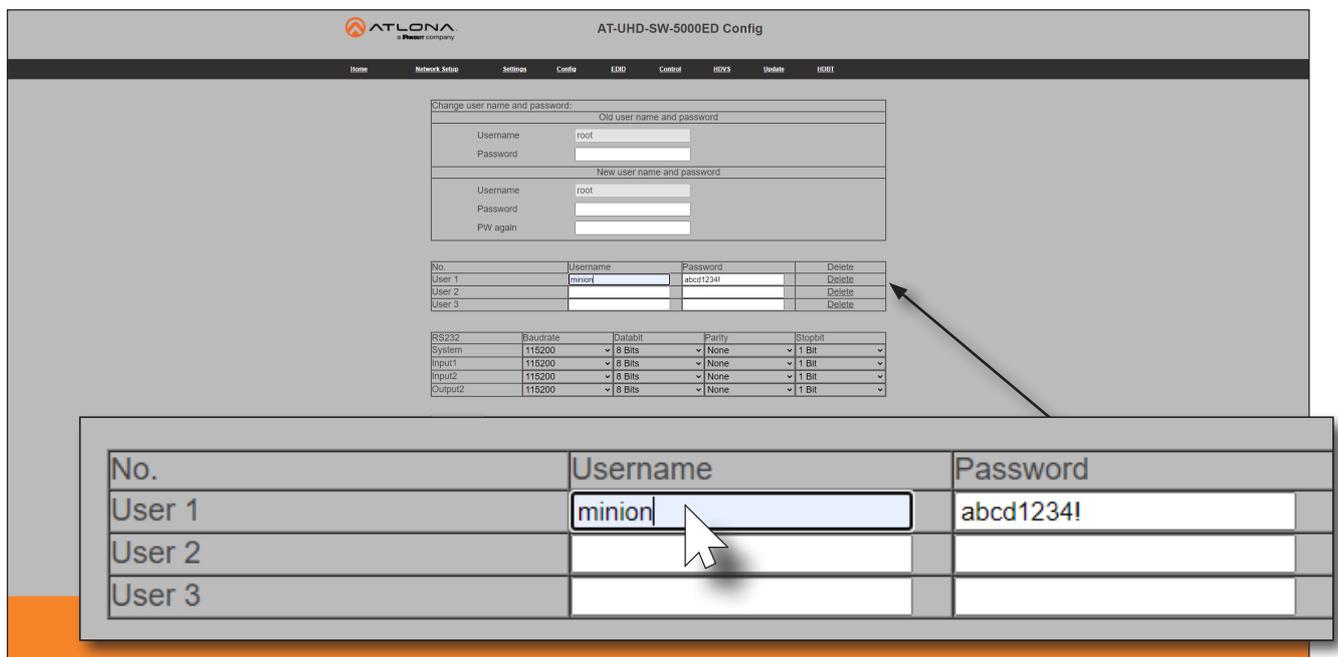
Editing Users

a. Click in the **Username** or **Password** field for the desired user and update the current information.

b. Click **Save Setting** to commit changes. Click **Cancel** to abort changes.

Deleting Users

a. Click **Delete** in the row next to the user to be deleted. Note that no prompt will be provided to confirm the deletion of the desired user.

EDID Management

Before a source can send picture and sound to a display device, the source reads the EDID (Extended Display Identification Data) structure, which is stored in the display. The EDID contains information about what type of video and audio formats are supported by the display. The AT-UHD-SW-5000ED can use either the downstream EDID (from the display/sink), and stored, or use a built-in EDID preset.

• EDID Presets
• Storing EDID Data

EDID Presets

The AT-UHD-SW-5000ED provides the option of selecting a preset EDID. The following presets are available. For information on **MEM_1** through **MEM_8** settings, refer to Storing EDID Data (page 33).

> ⚠️ **IMPORTANT:** If problems are encountered when using an EDID preset, try selecting the **STD** EDID preset.
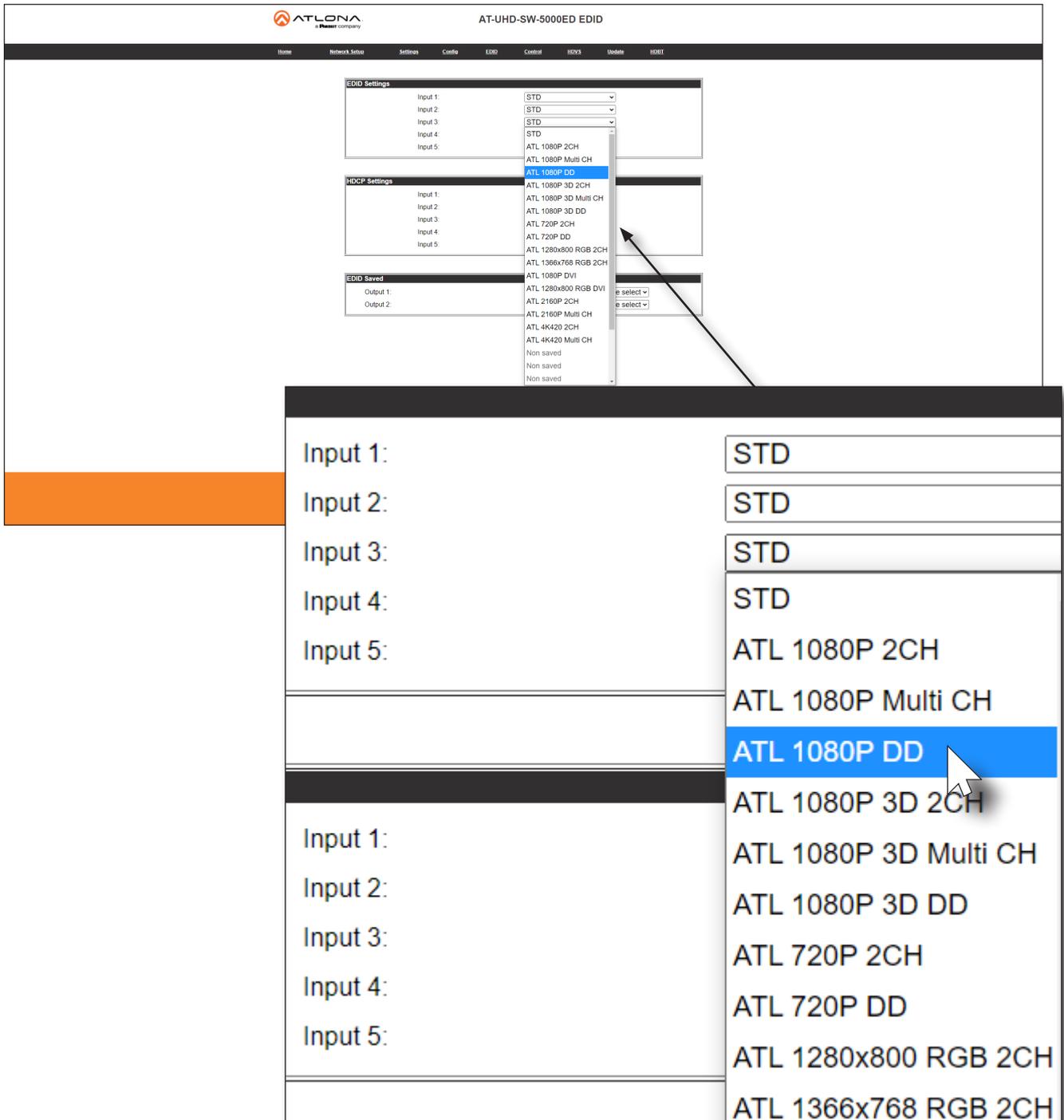
EDID listing	
STD	The default (generic) EDID for use with most displays.
ATL 1080P 2CH	1920 x 1080p @ 60 Hz with two-channel audio support.
ATL 1080P Multi CH	1920 x 1080p @ 60 Hz with multichannel audio support.
ATL 1080P DD	1920 x 1080p @ 60 Hz with Dolby® Digital audio support.
ATL 1080P 3D 2CH	1920 x 1080p @ 60 Hz with 3D and two-channel audio support.
ATL 1080P 3D Multi CH	1920 x 1080p @ 60 Hz with 3D and multichannel audio support.
ATL 1080P 3D DD	1920 x 1080p @ 60 Hz with 3D and Dolby® Digital audio support.
ATL 720P 2CH	1280 x 720p @ 60 Hz with two-channel audio support.
ATL 720P DD	1280 x 720p @ 60 Hz with Dolby® Digital audio support.
ATL 1280x800 RGB 2CH	1280 x 800 @ 60 Hz with RGB color space and two-channel audio support.
ATL 1366x768 RGB 2CH	1366 x 768 @ 60 Hz with RGB color space and two-channel audio support.
ATL 1080P DVI	1920 x 1080p @ 60 Hz DVI.
ATL 1280x800 RGB DVI	1280 x 800 with RGB color space DVI.
ATL 2160P 2CH	3840 x 2160 @ 60 Hz with two-channel audio support.
ATL 2160P Multi CH	3840 x 2160 @ 60 Hz with multichannel audio support.
ATL 4K420 (4:2:0) 2CH	4096 x 2160 (DCI) @ 60 Hz with 4:2:0 chroma and two-channel audio support.
ATL 4K420 (4:2:0) Multi CH	4096 x 2160 (DCI) @ 60 Hz with 4:2:0 chroma and multichannel audio support.
MEM_1 - MEM_8	Memory presets 1 through 8

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

   Username: root
   Password: Atlona

2. Click **EDID** in the menu bar.

3. Locate the **EDID Settings** section.

4. Click the drop-down list, next to the port that is connected to the display device, and select the desired EDID preset. For example, if the **HDMI IN 3** port is connected to a display, click the **Input 3** drop-down list and select the EDID.


5. EDID preset selection is complete.

Storing EDID Data

The AT-UHD-SW-5000ED provides eight memory locations which can be used to store EDID data. Any downstream EDID can be captured and stored in these locations. Each memory location is non-volatile and captured EDID data is stored after power is disconnected from the unit.

1. Connect an HDMI cable from the **HDMI OUT** port on the AT-UHD-SW-5000ED to the HDMI input on the display, containing the EDID to be stored.

   NOTE: The AT-UHD-SW-5000ED retains the currently selected input, even after the unit is powered-off then powered-on.

AT-UHD-SW-5000ED

HDMI

Display with EDID data to be captured

2. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

   Username: root
   Password: Atlona

3. Click **EDID** in the menu bar.

4. Locate the **EDID Saved** section.

5. Click the drop-down list, next to the output which will be used to fetch the EDID. In this example, since the display is connected to the **HDMI OUT** port, a memory location next to the **Output 1** option is selected. Here, the EDID will be stored in **MEM_1**.
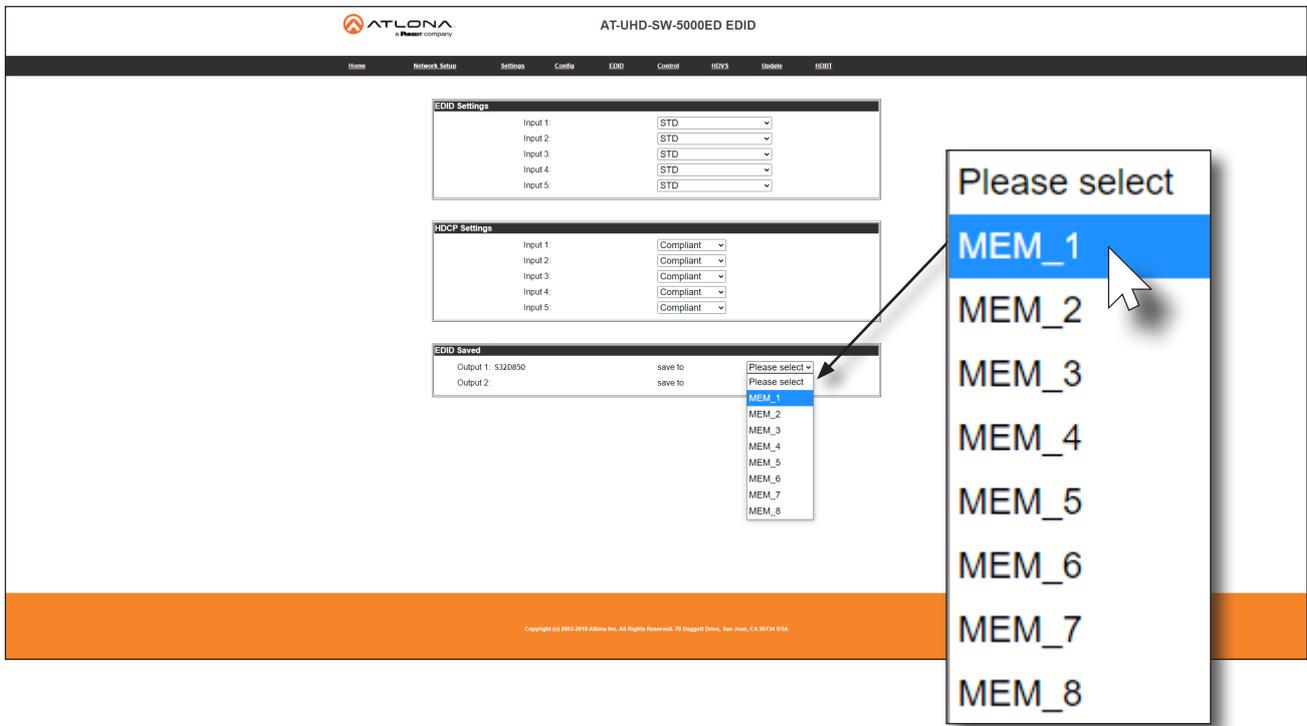
6. The saved EDID will appear next to the memory location, as shown below.

7. Click any of the Input drop-down list boxes. Note that the stored EDID appears as an available EDID preset for each available input on the AT-UHD-SW-5000ED.

8. The EDID storing procedure is completed.

NOTE: Once an EDID is written to a memory location, it can be overwritten with a different EDID, when desired. To overwrite an EDID with a different EDID, repeat steps 5 through 7, above.

HDCP Content

Normally, if a source is transmitting HDCP content to a display that is not HDCP-compatible, then the resulting image on the display can be "snow", image flickering, or no picture. For example, in the illustration below, a laptop source is connected to the AT-UHD-SW-5000ED. A non-compliant display is connected to a receiver, which is connected to the AT-UHD-EX-100CE-RX using HDBaseT.

⚠️ **IMPORTANT:** Not all source devices are capable of transmitting non-HDCP content. For example, Sony PlayStation® gaming consoles and Mac® computers always transmit HDCP-encrypted content.
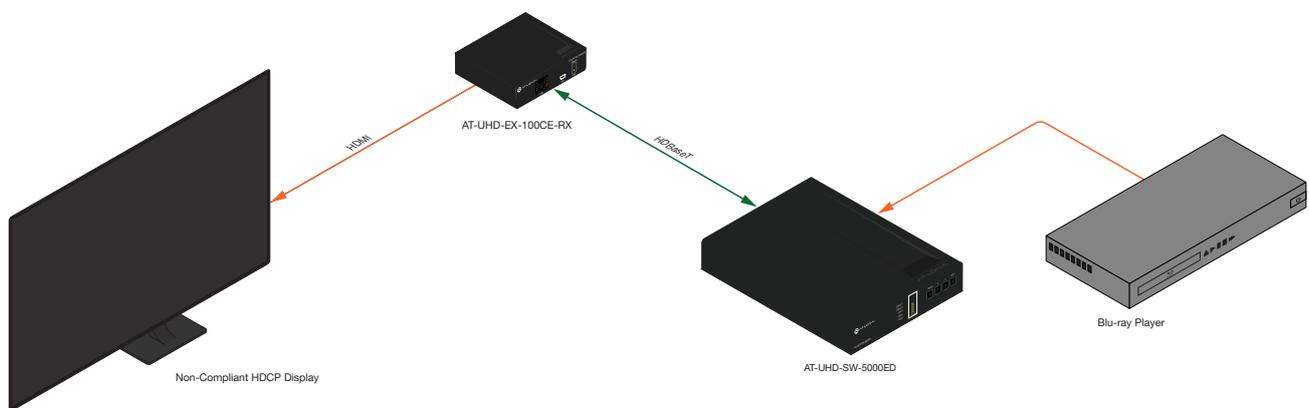
By default, the laptop may transmit HDCP content. However, when connected to a display that does not support HDCP, the laptop must be instructed to send non-HDCP content, in order for the content to be displayed.

1. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

2. Click **EDID** in the menu bar.

3. Locate the **HDCP Settings** section.

4. Click the drop-down list next to the desired input. For example, clicking the drop-down list, next to **Input 2**, and selecting **Noncompliant** will instruct the source device to send non-HDCP content, if possible.

Configuration and Management Interfaces

Introduction to the Web Server

The AT-UHD-SW-5000ED includes a built-in web server. Atlona recommends that the web server be used to set up the
AT-UHD-SW-5000ED, as it provides intuitive management of all features. Follow the instructions below to access the webGUI.

1. Make sure that an Ethernet cable is connected between the LAN port on the AT-UHD-SW-5000ED and the network.

2. Launch a web browser and enter the IP address of the unit. If the default static IP address is being used, enter 192.168.1.254.

3. The AT-UHD-SW-5000ED **Login** page will be displayed.

4. Enter the username and password in the **Username** and **Password** fields. The default username and password are listed below:
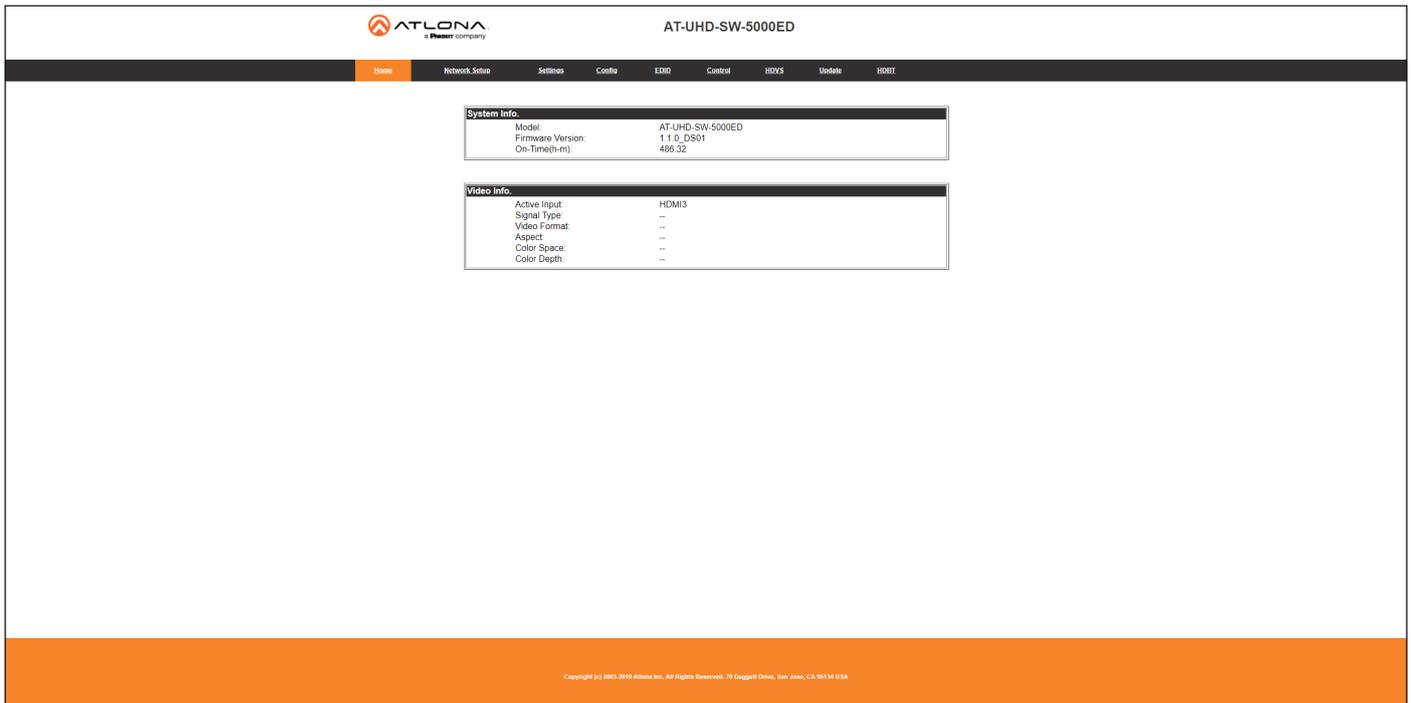
    Username: root
    Password: Atlona
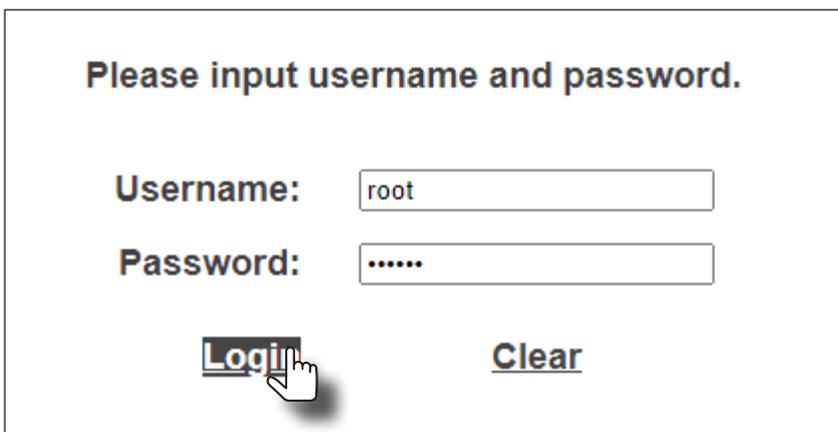
5. Click the **Login** button or press the ENTER key on the keyboard.

Home Page

After logging in, the **Home** page will be displayed. The **Info** page provides various information about the AT-UHD-SW-5000ED, including software version and video information.

Model
The model SKU of this product.

Firmware Version
The version of firmware that the AT-UHD-SW-5000ED is running. Always make sure to check the AT-UHD-SW-5000ED product page, on the Atlona web site, for the latest version of firmware.

On-Time(h-m)
Displays how long the system has been powered since the last reboot/reset.

Active Input
The currently selected (active) input.

Signal Type
The type of input signal.

Video Format
The input resolution of the source device.

Aspect
Aspect ratio of the input signal.

Color Space
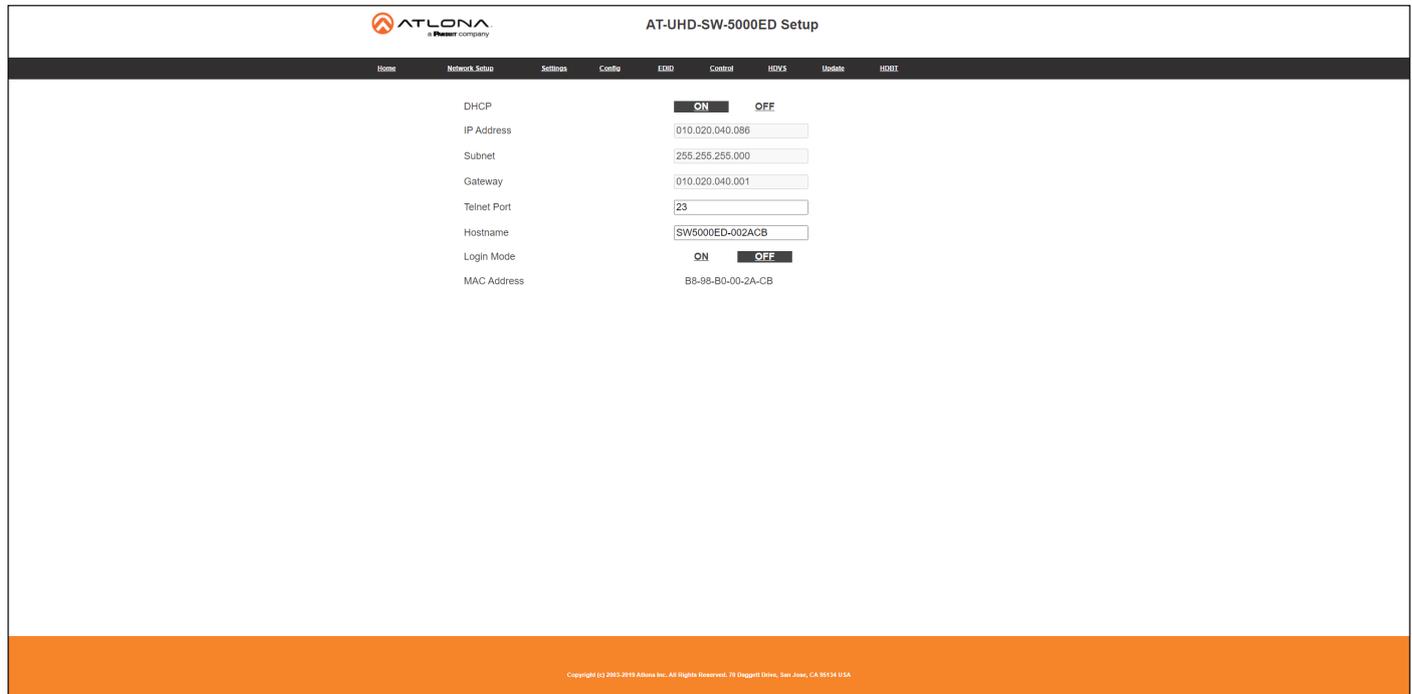Displays the color space and chroma sub-sampling of the input signal.

Color Depth
The color depth of the input signal.

Network Setup Page

The **Network Setup** page provides information about the current network settings of the AT-UHD-SW-5000ED. In addition, the network mode, Telnet port, and hostname can be assigned from this page.

DHCP

Click the desired setting to switch the AT-UHD-SW-5000ED to **ON** or **OFF** mode. The default setting is **ON** mode. When set to **OFF**, the AT-UHD-SW52ED will be set to static IP mode. Refer to Changing the Network IP Mode (page 17) for more information.

IP Address

Enter the IP address of the AT-UHD-SW-5000ED in this field. This field will only be available when **DHCP** is set to **OFF**. The default static IP address of the AT-UHD-SW-5000ED is 192.168.1.254.

Subnet

Enter the subnet mask of the AT-UHD-SW-5000ED in this field. This field will only be available when **DHCP** is set to **OFF**.

Gateway

Enter the gateway (router) IP address in this field. This field will only be available when **DHCP** is set to **OFF**.

Telnet Port

Enter the desired Telnet port (for Telnet sessions) in this field. The default port is 23. Refer to Changing the Telnet Port (page 19) for more information.

Hostname

Displays the hostname of the AT-UHD-SW-5000ED, as it would appear on a network. To change the hostname, type the new hostname in this field. Refer to Setting the Host Name (page 21) for more information.

Login Mode

Click the desired setting to switch the Telnet Login Mode to **ON** or **OFF**. If set to **ON**, then login credentials (same as web server) will be required when starting a Telnet session.

MAC Address

This field displays the MAC address of the AT-UHD-SW-5000ED.

Settings Page

The **Settings** page is divided into three sections: **Video**, **Audio**, and **HDCP**. The **Video** section provides controls for switching modes and input selection. The **Audio** section provides options to control the output audio volume and de-embedding. The **HDCP** section controls whether or not HDCP content is allowed to pass.
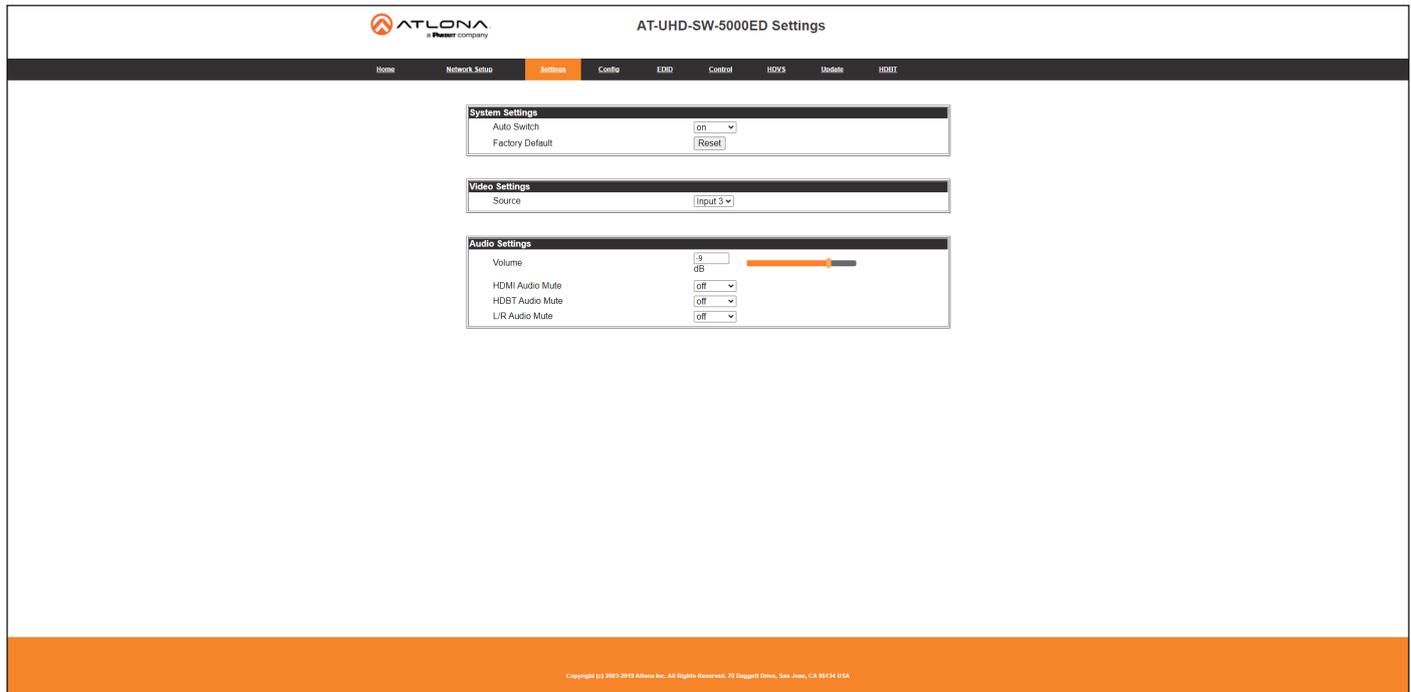
Auto Switch
Click this drop-down list to set auto-switching to **on** or **off**. The default settings is **off**. When set to on, the AT-UHD-SW-5000ED will automatically switch to the last-connected port. Refer to Enabling / Disabling Auto-Switching (page 22).

Factory Default
Click the **Reset** button to reset the AT-UHD-SW-5000ED to factory-default settings. Refer to Resetting to Factory-Defaults (page 24) for more information.

Source
Click this drop-down list to select the desired input. Available inputs are **Input 1** through **Input 5**.

Volume
Click and drag this slider to adjust the output volume. Output volume is measured in decibels (dB) and ranges from -80 to +15 dB. The default setting is 0 dB.

HDMI Audio Mute
Click this drop-down list to control HDMI audio output muting. If set to **on**, then HDMI audio output will be muted.

HDBaseT Audio Mute
Click this drop-down list to control HDBaseT audio output muting. If set to **on**, then HDBaseT audio output will be muted.

L/R Audio Mute
Click this drop-down list to control analog audio output muting. If set to **on**, then the analog audio output will be muted.
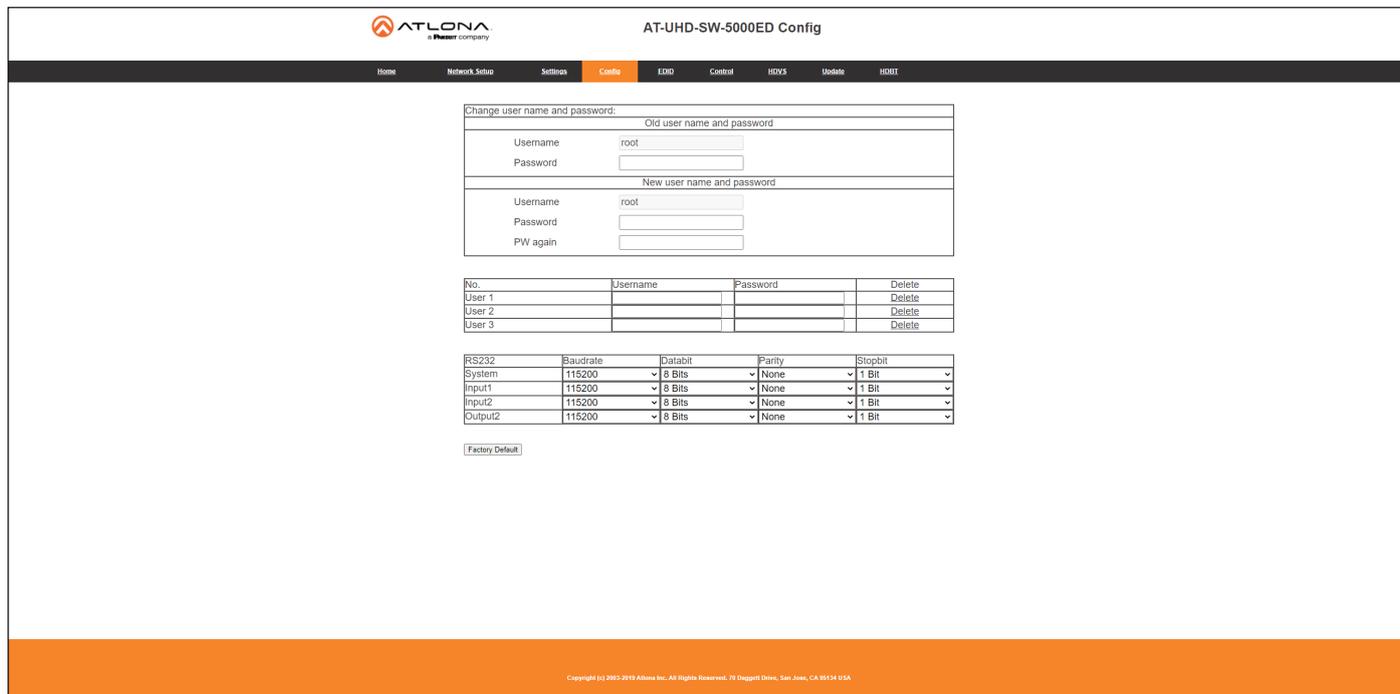
Factory Default
Click the **Factory Default** button to reset the current page to factory-default settings. Note that clicking this button *does not* reset the AT-UHD-SW-5000ED to factory settings.

Config Page

The **Config** page provides management of the administrator password. The administrator username ("root") cannot be changed. Refer to User Management (page 28) for more information. Up to three additional users can be managed within this page. This page also provides settings for both local and HDBaseT RS-232 control.

Username (old)
This field cannot be changed. "root" is the administrator user.

Password (old)
Enter the current password for the "root" username in this field. The default password is "Atlona".

Username (new)
Enter the new username in this field.

Password (new)
Enter the new password in this field.

PW again
Verify the new password by retyping it in this field.

User 1 - User 3
Enter the username and password for each user in the respective fields. Click **Delete** to remove a user.

System
Sets the RS-232 port settings and used for local control by a third-party control system.

Output2
If the AT-UHD-SW-5000ED is connected to a device such as the AT-UHD-EX-100CE-RX-PSE, the drop-down list can be set to the baud rate of the HDBaseT RS-232 settings on the corresponding device. If the AT-UHD-SW-5000ED is connected to another HDBaseT device, such as the AT-UHD-CLSO-824, the drop-down list will be disabled and the HDBaseT baud rate will be locked at 115200.

| 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.

Factory Default
Click the **Factory Default** button to reset the current page to factory-default settings. Note that clicking this button *does not* reset the AT-UHD-SW-5000ED to factory settings.

EDID Page

This page provides controls for selecting and storing EDID data. Refer to EDID Management (page 31) for more information.
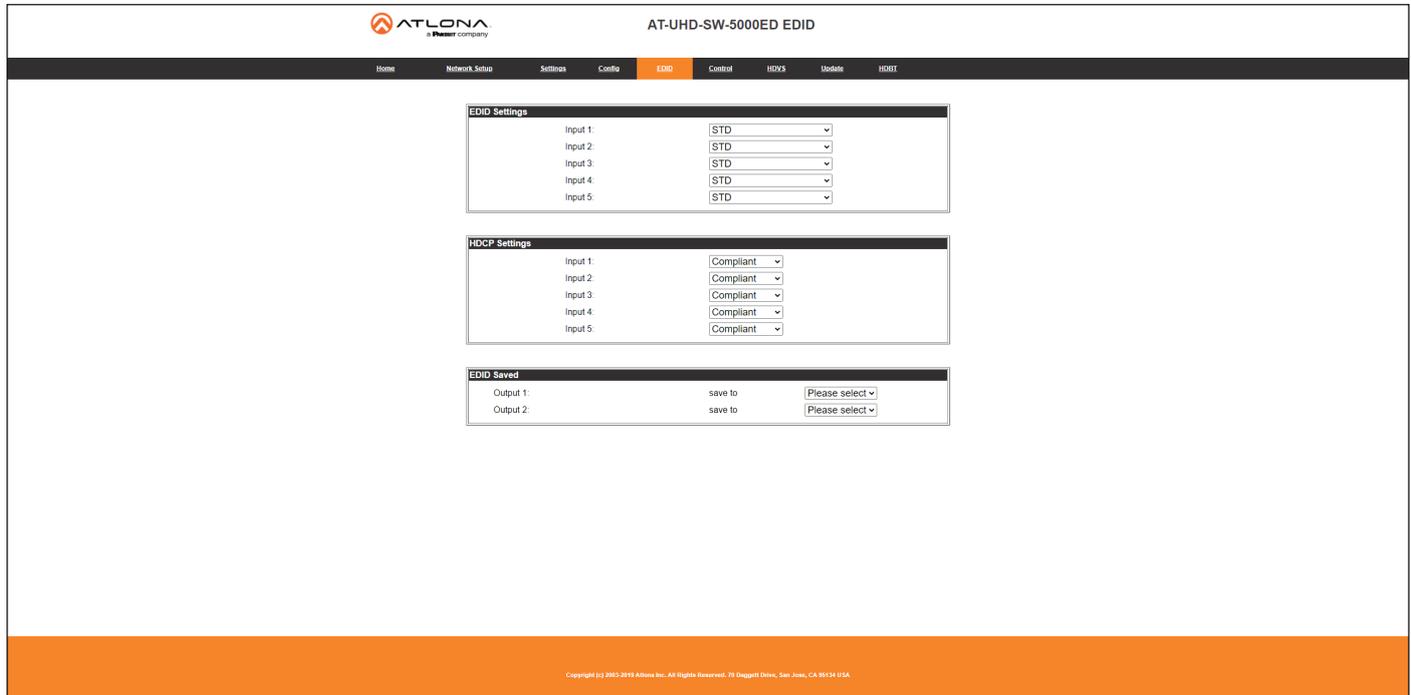
EDID Settings

Click these drop-down lists to select the desired EDID to be used for each input. The following EDID presets are available. When selecting an EDID, make sure that the display/sink device is capable of supporting the resolution/ timing. If the sink device is not able to support a feature, then the source will not be displayed. Selecting the **STD** EDID will provide the most compatible settings for most displays. In addition, eight memory locations are available for storing captured EDID data. If an EDID is stored in a memory location, it will also be added to the list available EDID selections.

EDID listing	
STD	ATL 2160P 2CH
ATL 1080P 2CH	ATL 2160P Multi CH
ATL 1080P Multi CH	ATL 4K420 (4:2:0) 2CH
ATL 1080P DD	ATL 4K420 (4:2:0) Multi CH
ATL 1080P 3D 2CH	MEM_1
ATL 1080P 3D Multi CH	MEM_2
ATL 1080P 3D DD	MEM_3
ATL 720P 2CH	MEM_4
ATL 720P DD	MEM_5
ATL 1280x800 RGB 2CH	MEM_6
ATL 1366x768 RGB 2CH	MEM_7
ATL 1080P DVI	MEM_8
ATL 1280x800 RGB DVI	

HDCP Settings

Each input provides control of how HDCP content is handled. Some source devices will send HDCP content if an HDCP-compliant display (sink) is detected. However, there may be applications where sending HDCP content is not desired. Setting the port to the **OFF** position, will instruct the source to send non-HDCP content to the display. Note that not all sources have this capability.

> ℹ️ **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.

- **Compliant**
  When set to **Compliant**, the source will transmit HDCP content to the AT-UHD-SW-5000ED.

- **Noncompliant**
  When set to **Noncompliant**, non-HDCP content will be transmitted (if possible) to the AT-UHD-SW-5000ED.

EDID Saved

The AT-UHD-SW-5000ED provides eight memory locations used for storing captured EDID data. Click these drop-down lists to select and store the external EDID. Output 1 refers to the **HDMI OUT** port and Output 2 refers to the **HDBaseT OUT** port.
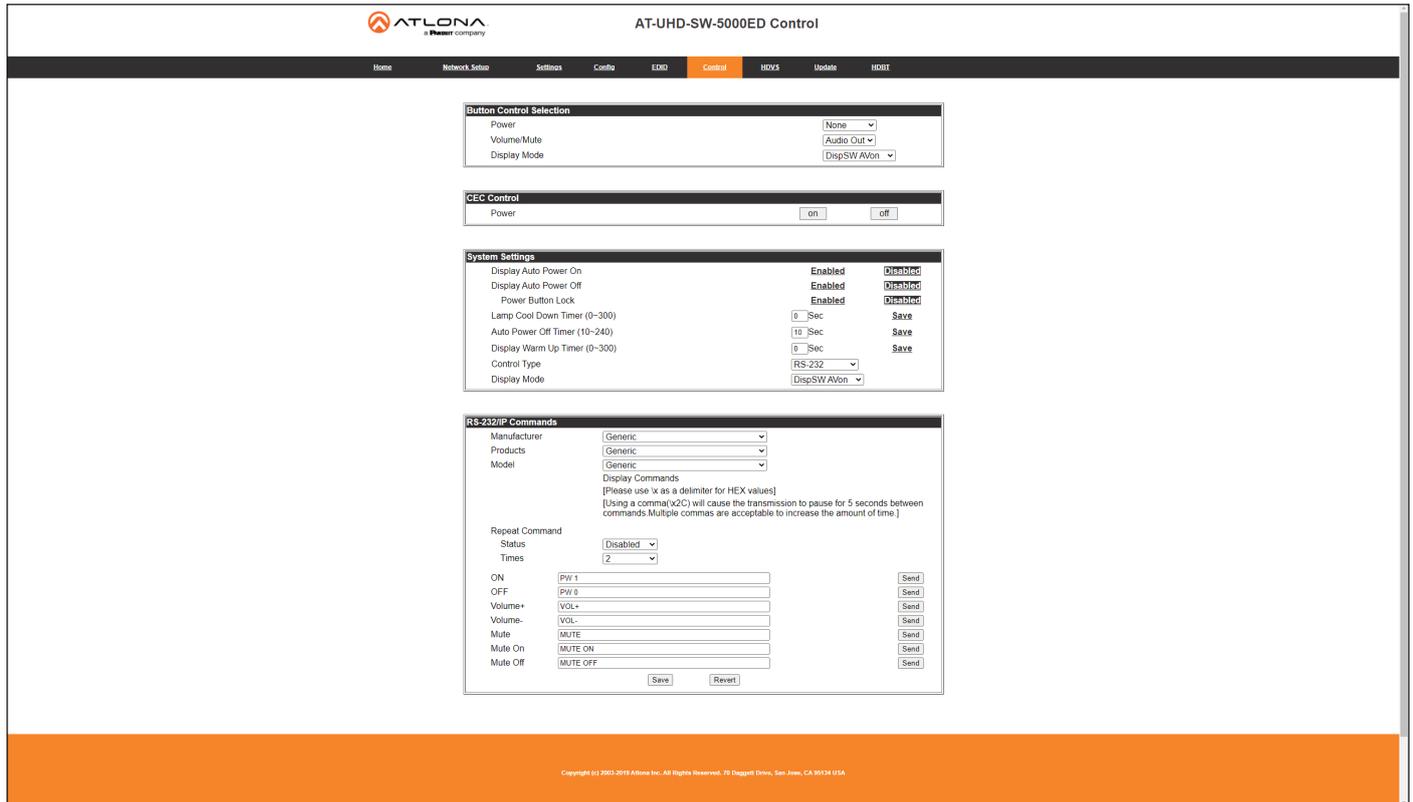
Control Page

This page provides controls for CEC, device timers, and configuration for controlling external devices.

NOTE: To display all settings on the screen, as shown below, the **Display Auto Power** drop-down list must be set to **Enabled**.

Power

Click this drop-down list to select the control protocol for the **POWER** button on the front panel. Available options are **None**, **CEC**, **RS-232**, or **IP**. To power-on and power-off the AT-UHD-SW-5000ED, set this drop-down list to **None**.

Volume/Mute

Click this drop-down list to select the control protocol for the **Volume/muting** buttons on the front panel. Available options are **Audio Out**, **RS-232**, or **IP**.

Setting	Description
Audio Out	Volume and mute buttons will control the volume output of the AT-UHD-SW-5000ED.
RS-232	Volume/Mute buttons will send RS-232 commands over HDBaseT to compatible receivers and displays.
IP	Volume/Mute buttons will send the commands over Ethernet using either the **LAN** port or the **CAT5e/6/7** (HDBaseT) port.

Display Mode
Click this drop-down list to select the power mode for the source / display.

Setting	Description
DispSW AVon	Display switches on/off, source audio/video signal always on.
DispSW AVSW	Display switches on/off, source audio/video signal switches on/off.
AV SW	Display is always on, source audio/video signal switches on/off
Always ON	Both source and display are always on.

CEC Control
Click the **on** and **off** buttons to test power-on and power-off CEC commands, respectively.

Display Auto Power On
Set this toggle to **ENABLED** to allow the AT-UHD-SW-5000ED to send the power-on command to the display when an A/V signal is detected. When the AV signal is no longer present, the AT-UHD-SW-5000ED will send the power-off command to the display. If this feature is not desired, then set to **DISABLED**. This feature is disabled by default.

Display Auto Power Off
Set this toggle to **ENABLED** to allow the AT-UHD-SW-5000ED to send the power-off command to the display when an A/V signal is detected. If this feature is not desired, then set to **DISABLED**. This feature is disabled by default.

Power Button Lock
Set this toggle to **ENABLED** to prevent the AT-UHD-SW-5000ED from being powered-off, if the POWER button is accidentally pressed.

Lamp cool down timer
Sets the cool-down interval, in seconds, before the projector is 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. Available values are 15 seconds to 15 minutes. The default setting is 10 seconds.

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 15 seconds to 15 minutes.

Display Warm-Up Timer
Click this drop-down list to select the display warm-up time interval. Available values are 10 to 300 seconds.
The default value is 10 seconds.

Control Type
Click this drop-down to select the control type. Available settings are **CEC***, **IP**, and **RS-232**. When this drop-down list is set to **CEC**, the **RS-232/IP Commands** window group will be hidden.

* 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 Mode
Click this drop-down list to select the power mode for the source / display.

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

IP Mode
If the device does not require a login, then set this drop-down value to **Non-Login**. If the device requires login credentials, select **Login** from the drop-down list. Note that if **Login** is selected, then the **Username** and **Password** fields will need to be populated with the required login credentials.

IP Address
Enter the IP address of the device to be controlled.

Port
Enter the port in this field.

Username
This field is only required if **IP Mode** is set to **Login**. Enter the username in this field.

Password
This field is only required if **IP Mode** is set to **Login**. Enter the required password in this field.

ASCII / Hex
Click these radio buttons to set the desired data transmission method.

Test
Click these buttons to send the appropriate data to the unit being controlled.

On/Off/Volume+/Volume-/Mute/
Enter the appropriate ASCII or Hex data string in each of these fields. Refer to the user manual for the display or device being controlled, for the proper command strings.
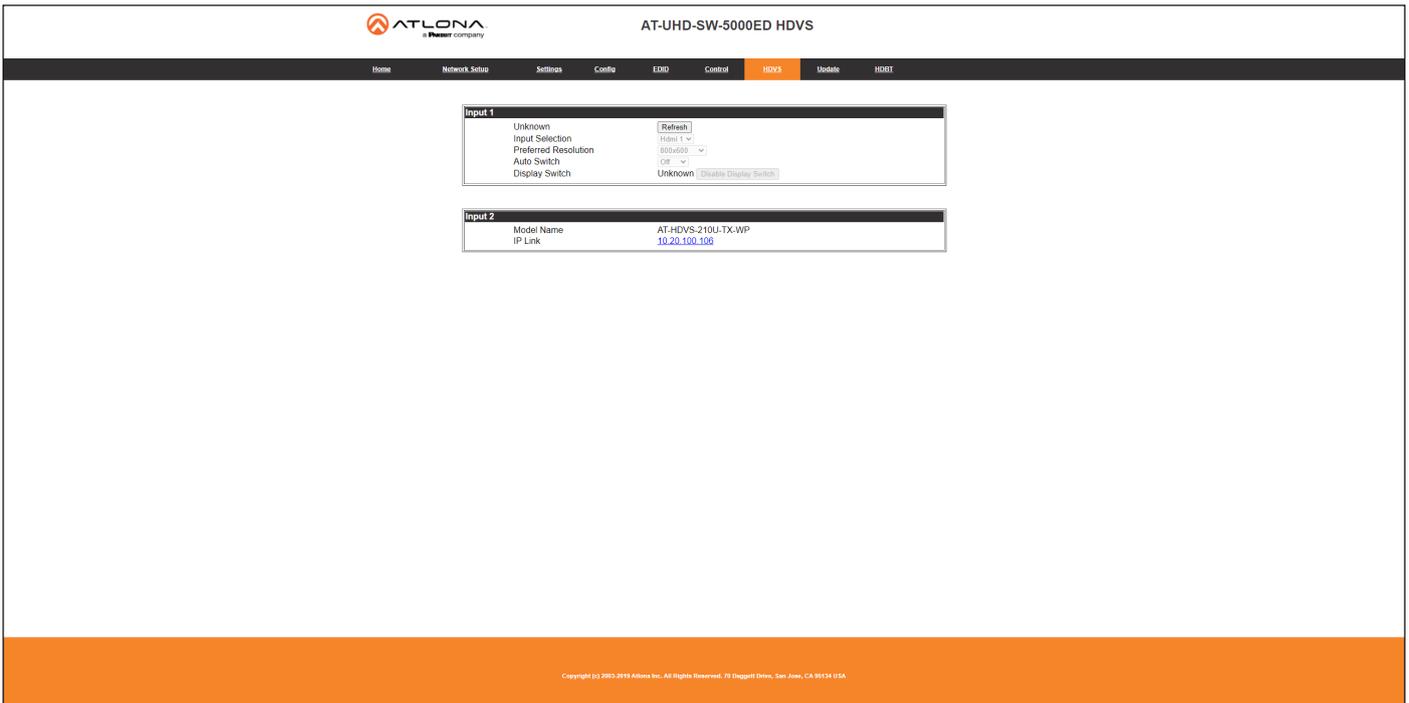
Feedback
Enter the desired feedback string in this field. This field can be any string value.

HDVS Page

This page provides management for HDVS HDBaseT transmitters that may be connected to the AT-UHD-SW-5000ED. If a transmitter is connected, then the device will be displayed under the associated input. In the example below, an AT-HDVS-210U-TX-WP is connected to **INPUT 2** on the AT-UHD-SW-5000ED. If the transmitter is connected to the Local Area Network (LAN), then the IP address will be displayed as a hyperlink. Clicking on the IP address will open a new browser window with the login page of the device.
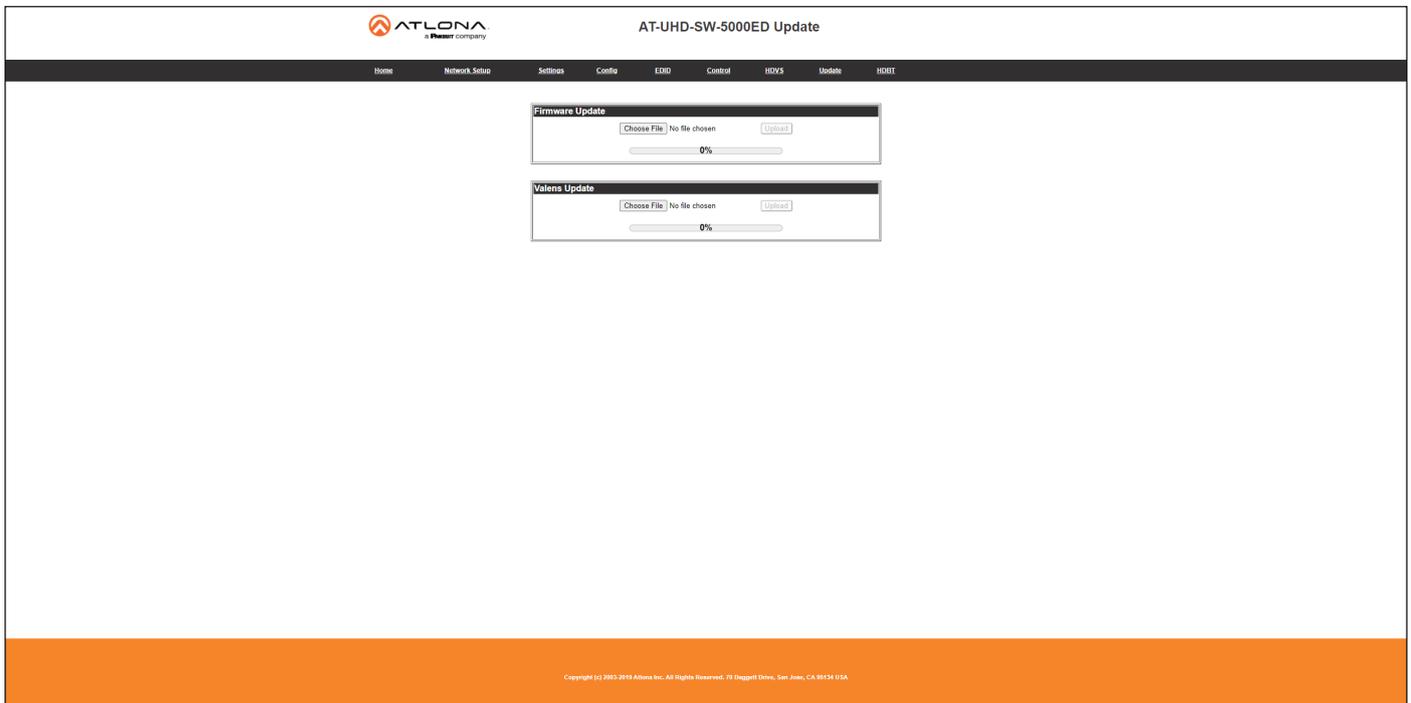

Refresh

Click this button to refresh the HDBaseT link on the associated input. This button will only be displayed if an HDVS unit is connected, but may not be recognized by the AT-UHD-SW-5000ED.

Update Page

This page provides management for updating the AT-UHD-SW-5000ED firmware.

Choose File
Click this button to select the firmware file to be uploaded to the AT-UHD-SW-5000ED. Note that this button is available for both the "master" firmware and Valens chip update.

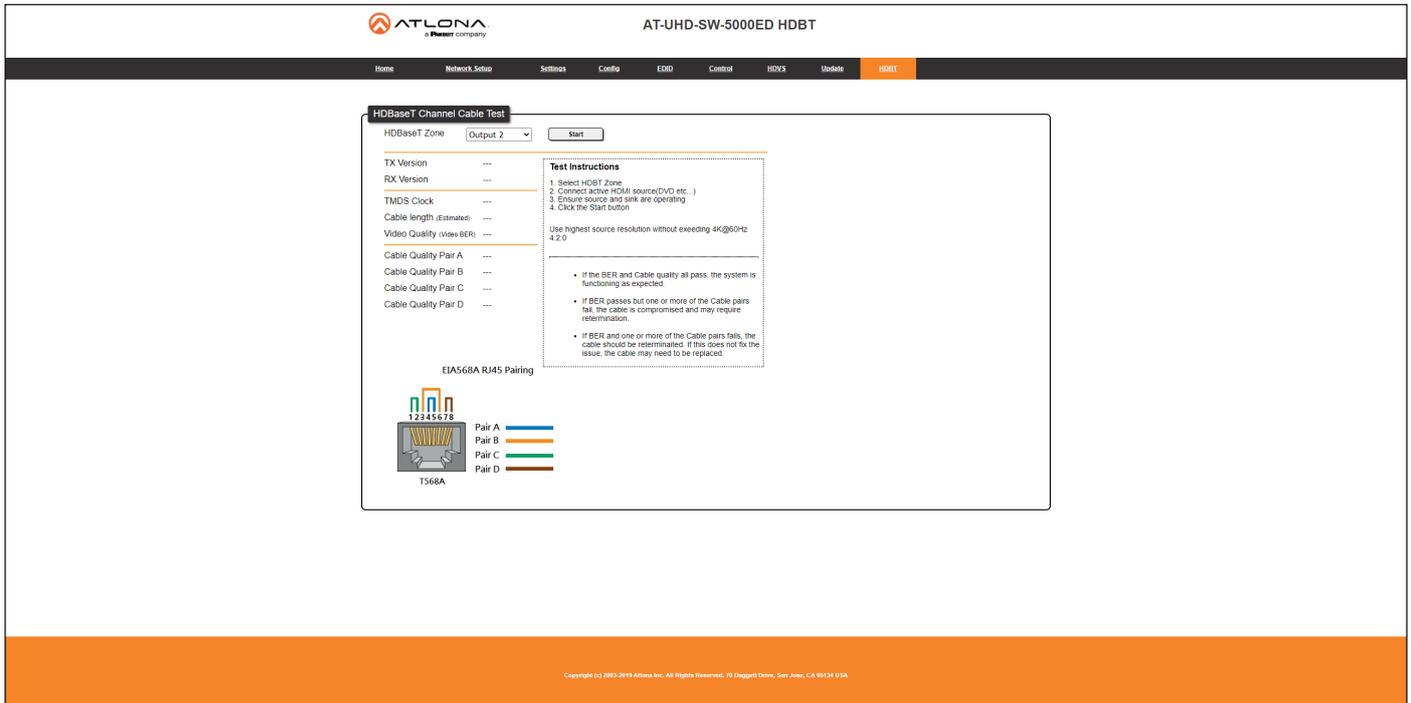**Upload**
Click this button to begin the firmware update process. Note that this button is available for both the "master" firmware and Valens chip update.

HDBT Page

This page provides management for updating the AT-UHD-SW-5000ED firmware.

HDBT Zone

Click this drop-down list to select the output channel (**ZONE OUT**) to test. Refer to HDBaseT Testing (page 54) for more information.

Appendix

Updating the Firmware

Updating the firmware can be completed using either the USB interface or the built-in web server.
Atlona recommends using the web server for updating the firmware. However, if a network connection is not available, the AT-HDVS-210H-TX-WP firmware can be updated using a USB-A to USB mini-B cable.

Using the Web Server

Requirements:

- AT-UHD-SW-5000ED
- Firmware file
- Computer on the same network as the AT-UHD-SW-5000ED

1. Download the firmware file from atlona.com and extract the contents of the .zip file to a folder on the computer desktop.

2. Connect an Ethernet cable from the computer, containing the firmware, to the same network where the AT-UHD-SW-5000ED is connected.

3. Login to the web server. Refer to Introduction to the Web Server (page 36). The default username and password are listed below:

    Username: root
    Password: Atlona

4. Click **Update** in the menu bar, then click the **Choose File** button, under the **Firmware Update** section.

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

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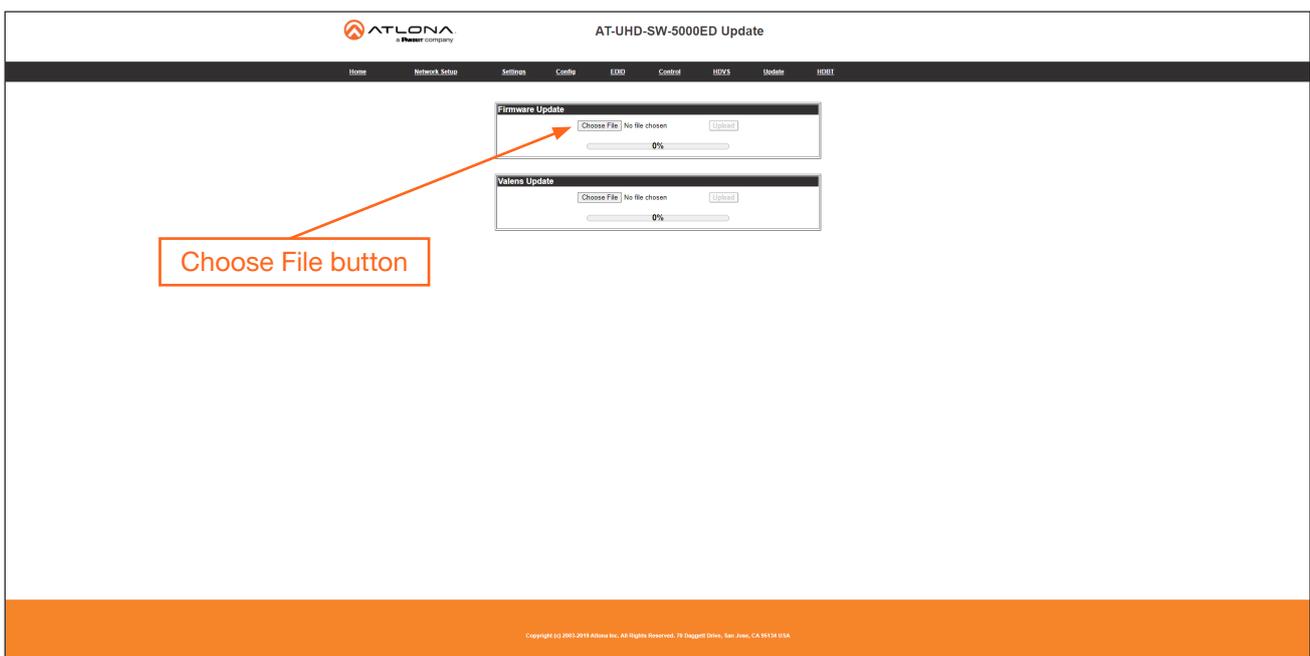
6. Click the **Upload** button, under the **Firmware Update** section.

7. A progress bar will be displayed during the update process. After the update is complete, and if a restart is required, the web server will display a prompt.

> ⚠️ **IMPORTANT:** If performing a firmware update prior to version 1.1.0, a white screen will be displayed after the update process is complete. Power-cycle the unit to display the login screen.

8. The AT-UHD-SW-5000ED is now ready for use.

Using the USB Interface

Requirements:

- AT-UHD-SW-5000ED
- Firmware file
- Computer with a USB port
- USB-A to USB mini-B cable

> ⚠️ **IMPORTANT:** Firmware versions prior to 1.1.0 are not supported for USB updating under Microsoft Windows 10. Firmware updates must be performed Using the Web Server (page 1).

1. Download the firmware file from atlona.com and extract the contents of the .zip file to a folder on the computer desktop.

2. Disconnect power from the AT-UHD-SW-5000ED.

3. Connect the USB-A to USB mini-B cable between the computer and the FW port on the AT-UHD-SW-5000ED.

FW port
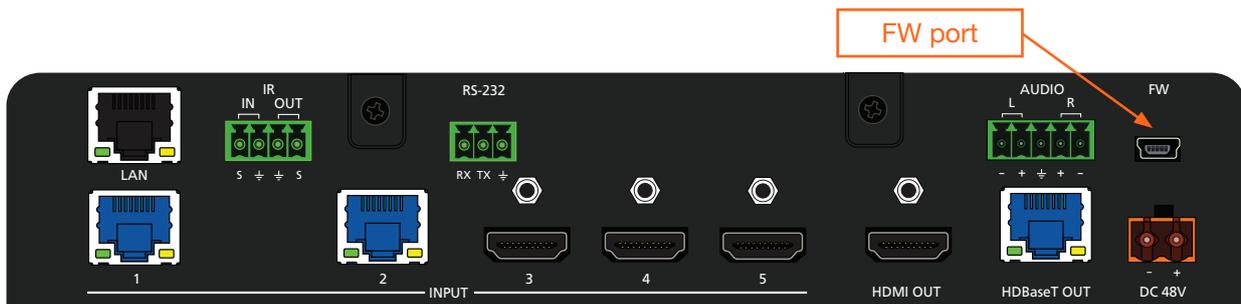
4. Simultaneously press and hold down the **INPUT** button on the front panel, while connecting the power supply to the AT-UHD-SW-5000ED. *Continue to hold down the* **INPUT** *key for five seconds AFTER the power supply has been connected*.

5. Release the **INPUT** key.
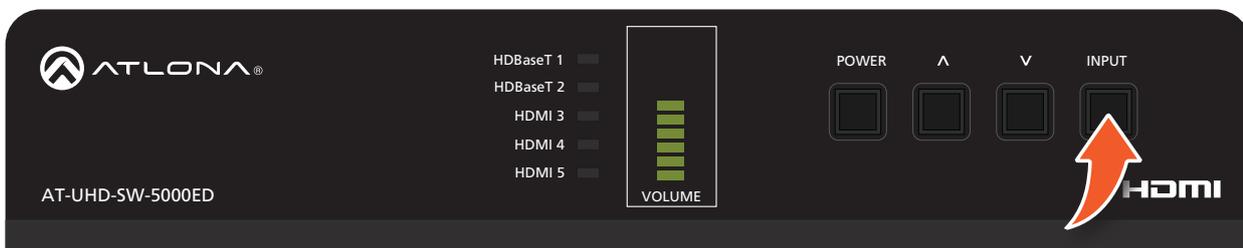
6. The USB UPDATE folder will be displayed.

   If this folder is not displayed, automatically, select the USB UPDATE drive from Windows Explorer.
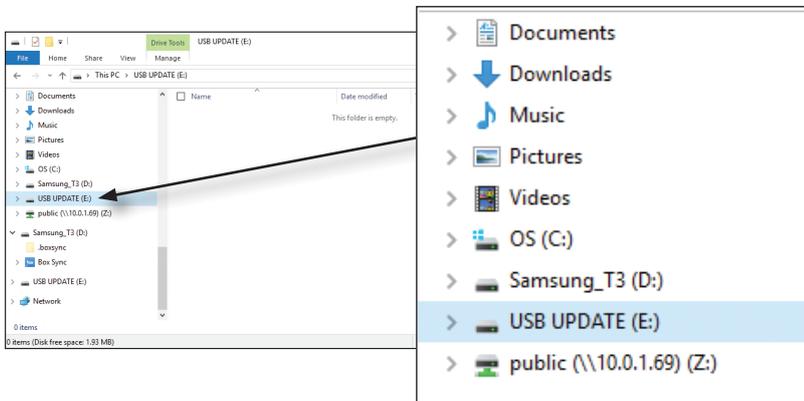
7. Delete all files from the USB UPDATE drive, if any are present.

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-UHD-SW-5000ED.

10. The firmware update process is complete and the AT-UHD-SW-5000ED is now ready for use.

HDBaseT Testing

The web server of the AT-UHD-SW-5000ED provides a tool for testing the signal integrity of HDBaseT cables. This tool is useful for troubleshooting and identifying defective or damaged category cables which are connected from the HDBaseT INPUTS/OUTPUT ports to a receiver/transmitter.

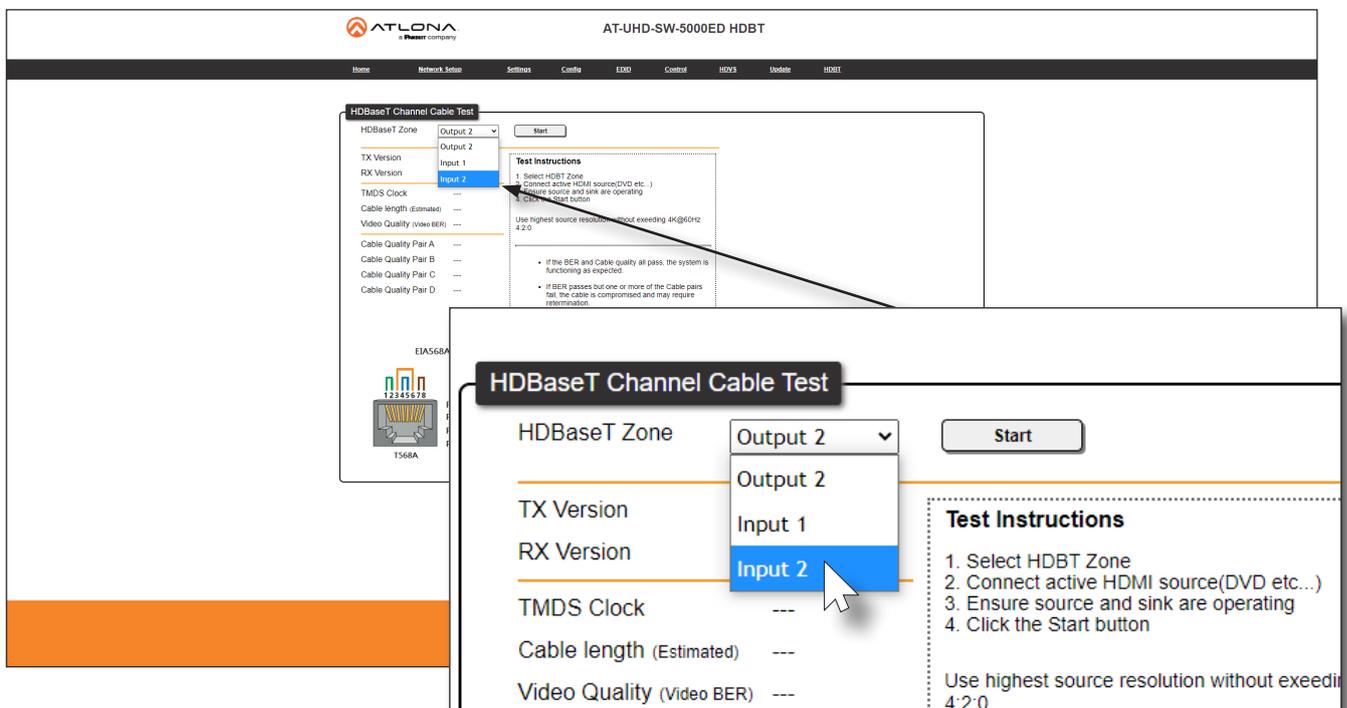1. Login to the web server. Refer to Introduction to the Web Server (page 36) for more information, if necessary.

2. Click **HDBT** in the top menu bar.

3. Click the **HDBT Zone** drop-down list and select the desired zone to test. Before testing a zone, make sure that an category cable is connected between the HDBaseT port (INPUT/OUTPUT) and a compatible transmitter/receiver.

4. Click the **Start** button to begin testing the selected channel.

    • If the HDBaseT link integrity is good, then all tests will display as "Pass".

    • If any part of the HDBaseT cable fails, then a numerical value, in decibels, will be displayed next to the associated pair, under the **Signal Quality** section. These values can be reported to Atlona Technical Support Engineers to help resolve possible issues.

Mounting Instructions

The AT-UHD-SW-5000ED includes two mounting brackets, which can be used to attach the unit to any flat surface. Use the two enclosure screws, on the sides of the unit to attach the mounting brackets.

Single Unit Rack Installation

1. Attach the included small rack ear to one side of the AT-UHD-SW-5000ED, using the included screws.

2. Attach the included longer rack ear to the opposite side of the AT-UHD-SW-5000ED using the included screws.
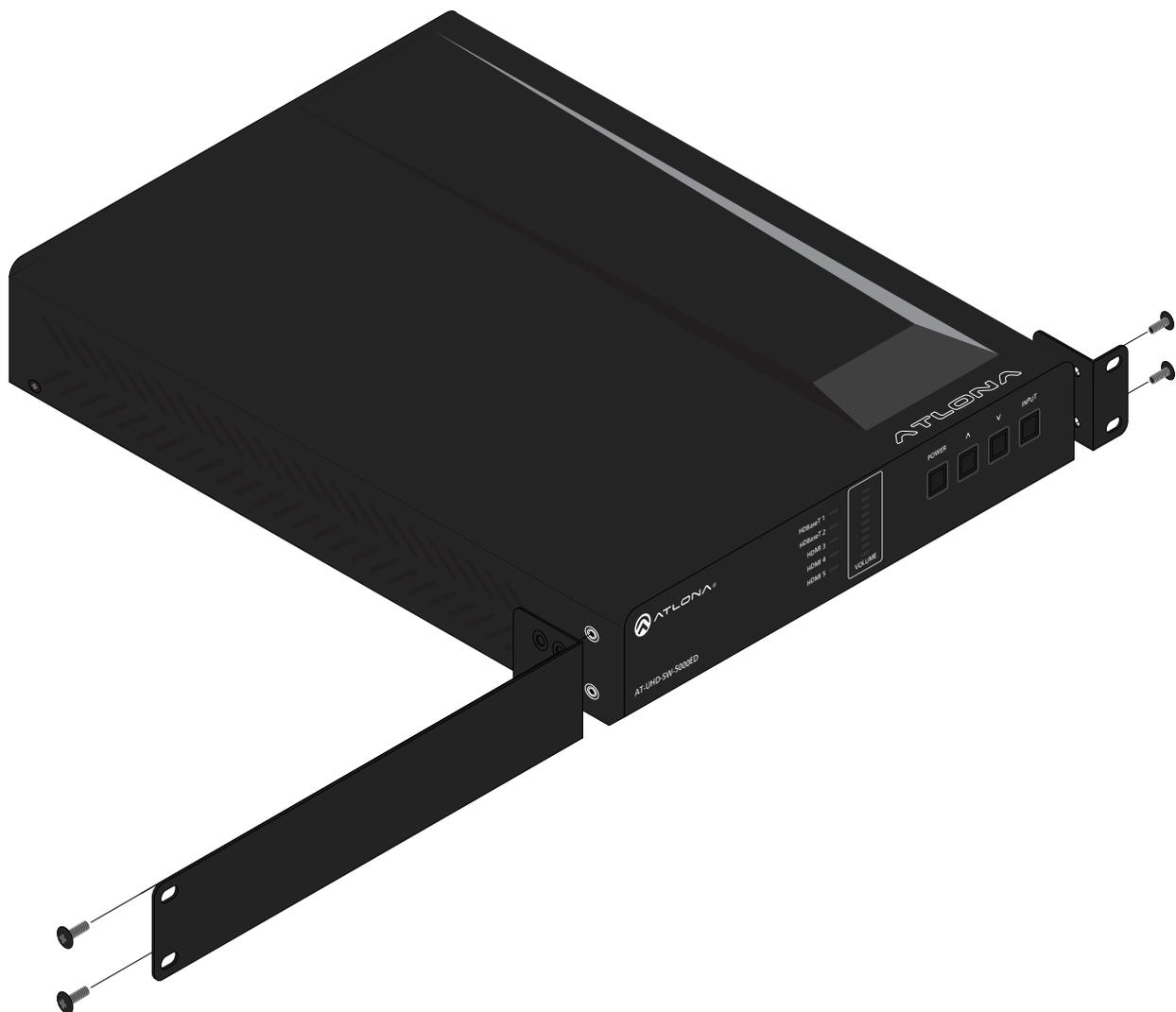
Dual Unit Rack Installation

1. Turn both units upside-down on a flat surface, next to each other, as shown.

2. Position the included mounting plate over the pre-drilled holes on the bottom of the enclosure. When attaching the mounting plate, the countersink bevels on the mounting plate should face upward.

Countersink bevel
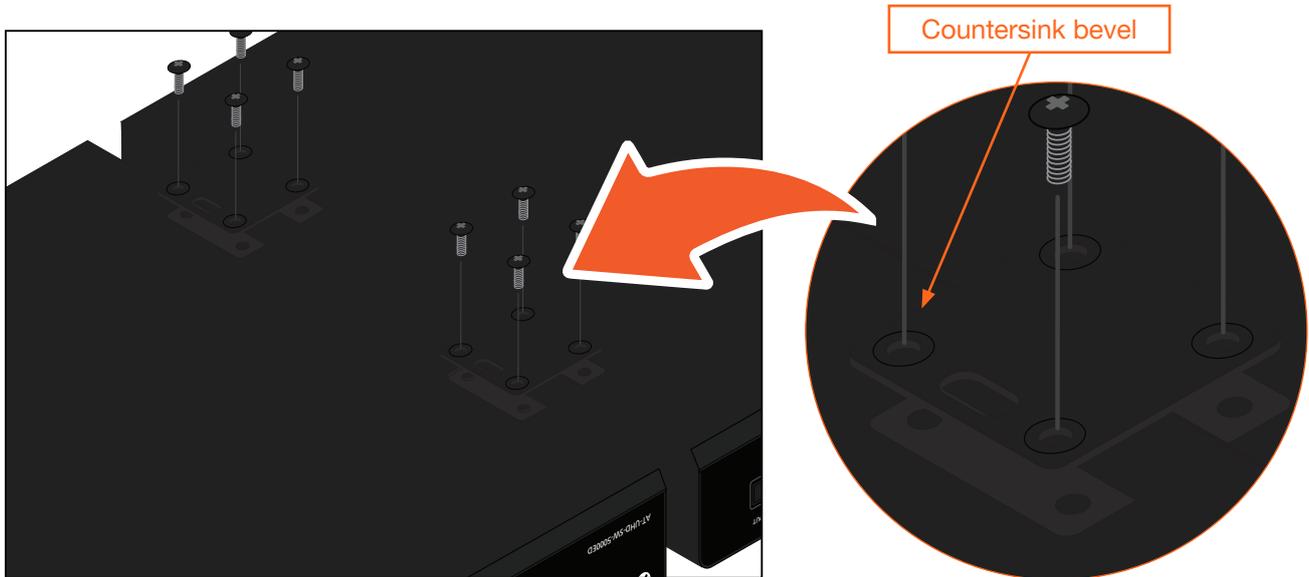
3. Turn the attached units over and install the rack ears (sold separately) to one side of each enclosure using the included screws.
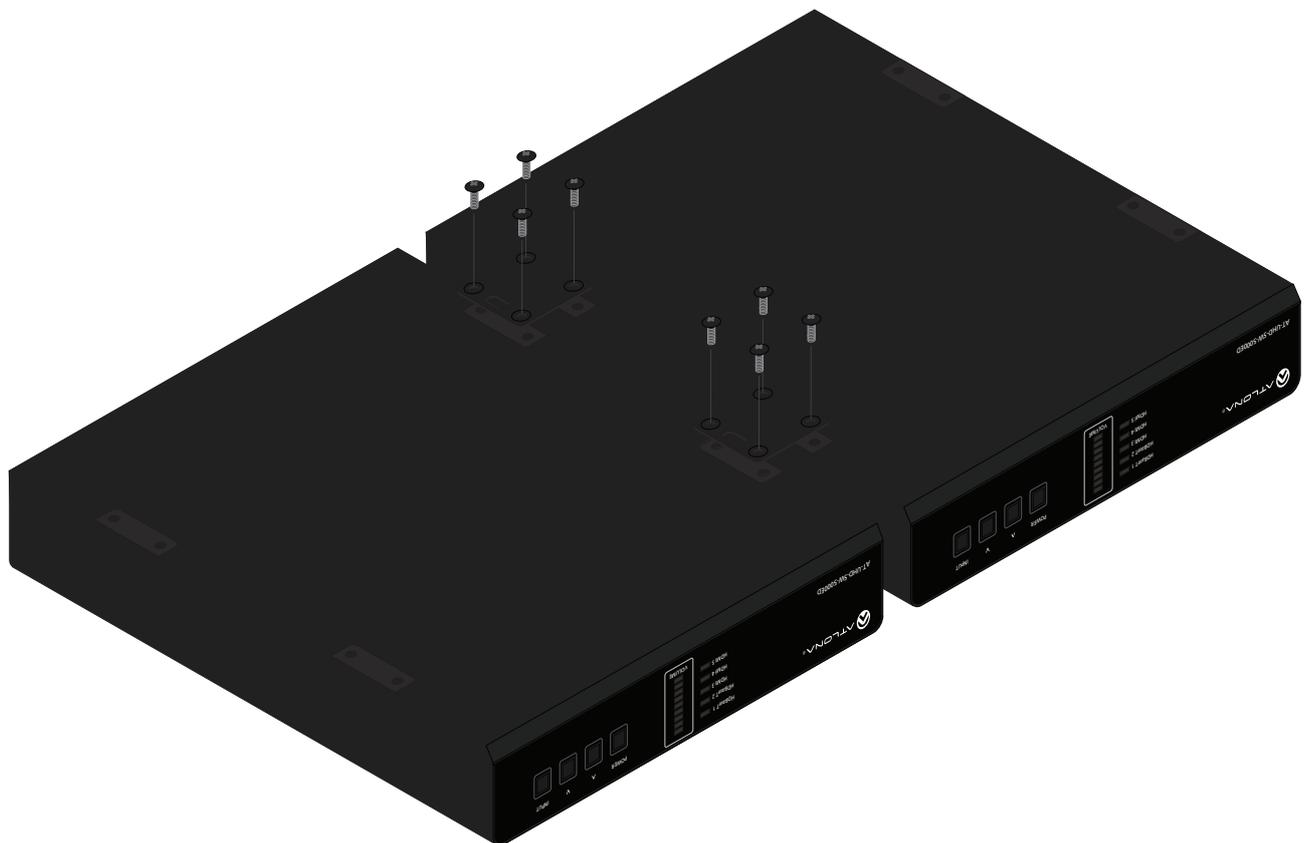
Flat Surface

1. Turn the unit upside down, on a flat surface.

2. Position the included mounting plates over the pre-drilled holes on the bottom of the enclosure. When attaching mounting plates, the countersink bevels on the mounting plates should face upward.

3. Mount the unit using the circular holes, on each mounting plate. If using a drywall surface, a #6 drywall screw is recommended. Mounting screws are not included.

NOTE: The unit can also be mounted under a flat surface, such as a table, by turning the unit upside down.

IR Remote Control

NOTE: The AT-UHD-SW-5000ED no longer ships with an IR remote control. However, IR documentation remains for units currently in the field.

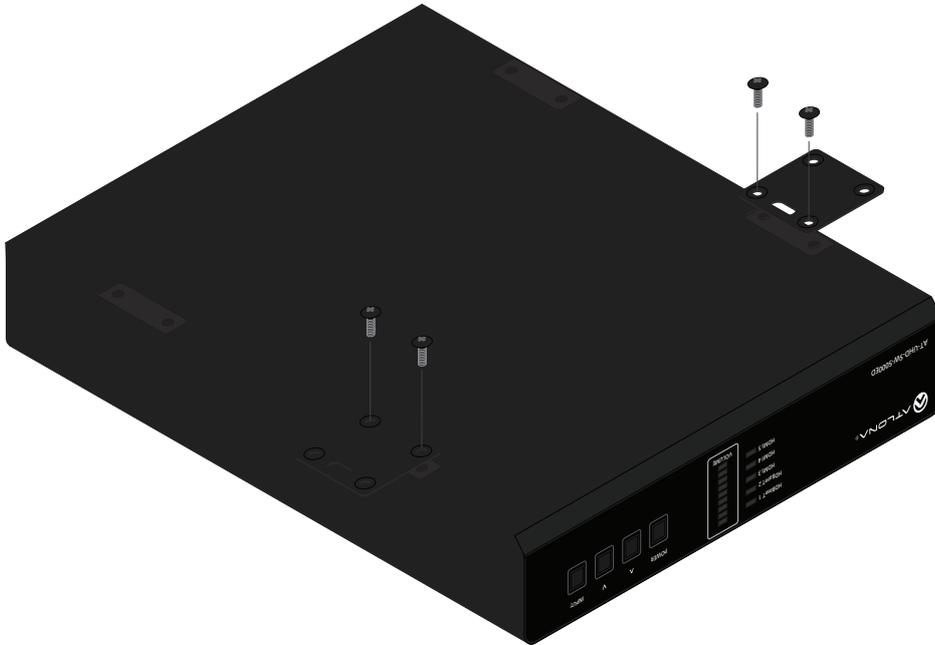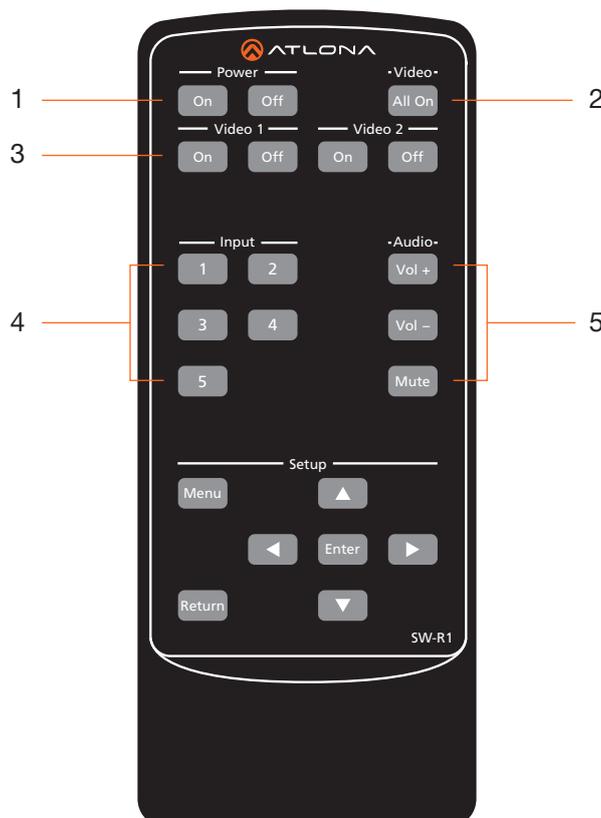**IMPORTANT:** The AT-SW-R1 IR remote can be used to control the AT-UHD-SW-5000ED from a maximum distance of 15 feet (4.5 meters). Exceeding this distance may result in unreliable behavior. In addition, environmental lighting conditiions, such as florecent bulbs, high-intensity light (sunlight), and other factors may also affect IR operation.

NOTE: The buttons under the Setup section do not function with the AT-UHD-SW-5000ED.

1   **Power On Off**
Press the **On** button to power on the unit or press the **Off** button to turn off the unit.

2   **Video All On**
Press this button to enable video output on both HDMI 1 and HDMI 2.

3   **Video 1 On Off / Video 2 On Off**
Press these buttons to enable or disable video output on **HDMI OUT** or **HDBaseT OUT**. Press the **On** button to enable video output. Press the **Off** button to disable video output.

4   **Input**
Press these button to select the desired input.

5   **Audio Vol + / Vol - / Mute**
Press the **Vol +** button to increase the output volume level or press the **Vol -** button to decrease the output volume. Press the **Mute** button to mute the audio output.

Specifications

Video

Video	
Signal Type	HDMI
HDCP	1.4
Pixel Clock	300 MHz
UHD/HD/SD	4096×2160@60[1]/50[1]/30/25/24 Hz 3840×2160@60[1]/50[1]/30/25/24 Hz 2048x1080p 1920x1080p@60/59.94/50/30/ 29.97/25/24/23.98 Hz 1920x1080i@60/59.94/50 Hz 1280x720p@60/59.94/50 Hz 720x576p 720x576i 640x480p 640x480i
VESA	2560×2048 2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1600×900 1440×900 1400×1050 1366×768 1360×768 1280×1024 1280×800 1280×768 1152×768 1024×768 800×600 640×480
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0
Color Depth	8-bit, 10-bit, 12-bit

Audio

Audio			
HDMI / HDBaseT Pass-Through Formats	PCM 2.0 LPCM 5.1 LPCM 7.1	Dolby® Digital Dolby Digital Plus™ Dolby TrueHD Dolby Atmos®	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
S/PDIF	PCM 2.0	Dolby® Digital	DTS-HD Master Audio™
Bit Depth	Up to 24 bits		
Analog Audio			
Format	Maximum analog output: balanced +18dBu @ 0 dBfs, LPCM 2.0 only		
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz		

Control

Control	
RS-232	Device control and configuration Bidirectional pass-through from control system over HDBaseT Supported baud rates: 2400, 4800, 9600, 19200, 38400, 57600, 115200
IP	Protocols: HTTPS, Telnet, mDNS Modes: DHCP, Static - selectable through front panel and web server
CEC Support	Yes

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI IN/OUT	15	5	30	10
CAT5e/6	230	70	330	100
CAT6a/7	330	100	330	100

Buttons and Indicators	
Buttons: POWER, UP, DOWN, INPUT	4 - Momentary, tact-type
Indicators: HDBaseT 1 - HDBaseT 2, HDMI 3 - HDMI 5 VOLUME	5 - LED, blue 9 - LED, green, amber, red

Connectors	
HDMI IN	3 – Type A, 19-pin female
HDMI OUT	1 – Type A, 19-pin female
HDBaseT IN	2 - RJ45
HDBaseT OUT	1 - RJ45
LAN	1 - RJ45, 10/100 Mbps
AUDIO OUT	1 – 5-pin captive screw, balanced / unbalanced 2-channel
RS-232	1 – 3-pin captive screw (bidirectional)
IR IN/OUT	1 – 4-pin captive screw
FW	1 – Mini USB
PWR	1 - 2-pin captive screw

Temperature	Fahrenheit	Celsius
Operating	32 to 122	0 to 50
Storage	-4 to 140	-20 to 60
Humidity (RH)	20% to 60%, non-condensing	

Power		
Consumption	44.22 W	
Idle Consumption	22 W	
Supply	Input: 100 - 240 V AC, 50/60 Hz Output: 48 V / 1.25 A DC	

Dimensions (H x W x D)	Inches	Millimeters
Unit	1.73 x 8.64 x 10	44 x 219.5 x 254
Power Supply (AT-PS-4812-C)	1.42 x 1.81 x 4.41	36 x 46 x 112

Weight	Pounds	Kilograms
Device	3.70	1.66

Certification		
Device	CE, FCC	
Power Supply	CE, FCC, cULus, RoHS	

Compliance	
NDAA-899	Yes

Warranty	
Device	3-year limited

(1) 4096×2160 @ 50/60 Hz and 3840×2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only.