

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



AT-UHD-SW-5000ED Atlona Manuals Switchers



Version Information

Version	Release Date	Notes
1	Dec 2020	New format
2	Sep 2021	IR remote no longer shipping with unit; IR documentation is still included for units in the field.



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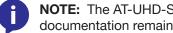
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Operating Notes



IMPORTANT: Visit http://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.



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OR

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Safety and Certification



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.
- 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 by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.

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Introduction

The Atlona **AT-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

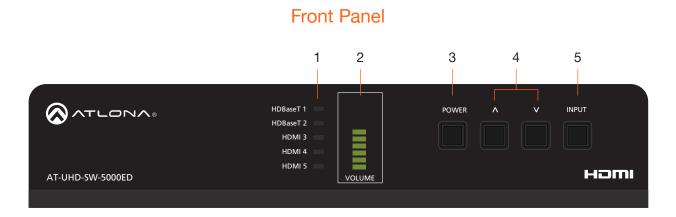
- Two, Ethernet-enabled HDBaseT Inputs
- Mirrored, dual outputs on HDMI and HDBaseT
- Automatic display control
- Automatic input selection using hot plug detect and video detection technology
- Ethernet-enabled HDBaseT
- EDID management and HDCP management
- 4K/UHD capability
- AV, Ethernet, power and 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 / 0.83 A DC power supply
- 1 x power cord



Panel Description



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 LED Indicators (page 17) 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

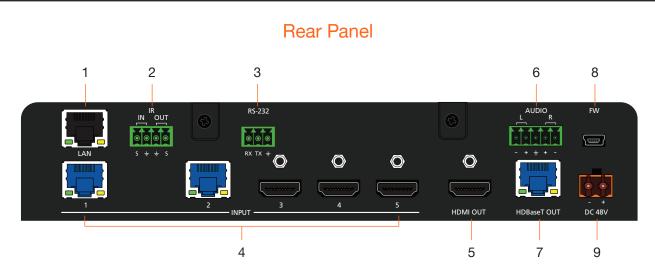
Press and release these buttons to increase or decrease the audio output volume on the **ANALOG OUT** port.

5 INPUT

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



Panel Description



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 12) 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 12) for more information on wiring the included captive screw connector.

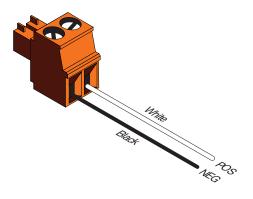


Installation

Power

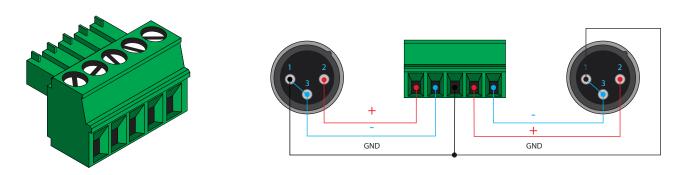
Connect the included 2-pin captive screw connector to the **DC 48V** power receptacle on the rear of the unit. Insert the positive and negative leads, from the power supply, into the terminals of the 2-pin captive screw connector block, as shown.





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.



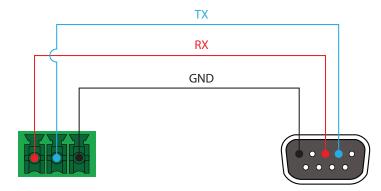


RS-232

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.







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 five 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.

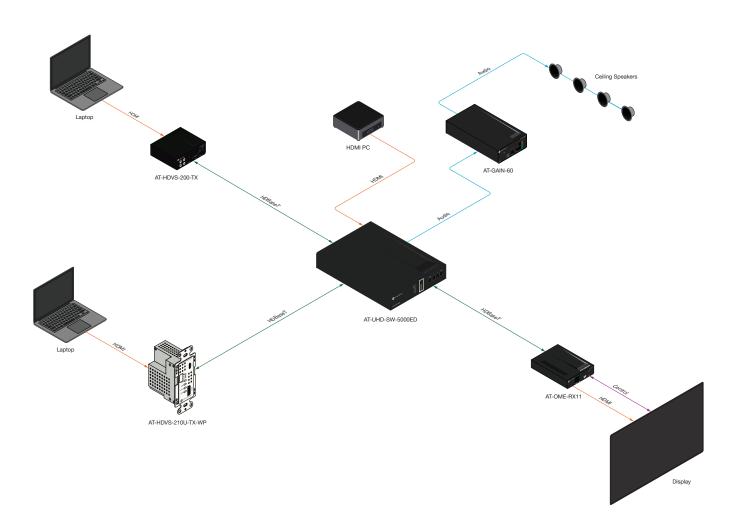


- 5. Connect an Ethernet cable from the LAN port to the Local Area Network (LAN).
- 6. OPTIONAL: Connect the included 5-pin captive screw connector to the AUDIO OUT port.
- 7. OPTIONAL: Connect the included 4-pin captive screw connector to the **IR IN/OUT** port.
- 8. OPTIONAL: Connect the included 3-pin 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 Power (page 12) for more information.



Installation

Connection Diagram





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 builtin 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 19) 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 selfassigned 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.

- 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.



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,	Solid green		The input is the currently selected (active) input.		
HDMI 3 - HDMI 5	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	U	Unit is powered and in normal operating mode. A/V muting is disabled.		
	Solid red	U	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 Introduction to the Web Server (page 38). 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.

		AT-UHD-SW-5000ED Setup	
	Home Network.Stitup Stitlings Config	EDID Control HDVS Vodate	новт
	DHCP	ON OFF	
	IP Address	010.020.040.086	
	Subnet	255.255.255.000	
	Gateway	010.020.040.001	
	Telnet Port	23	
	Hostname	SW5000ED-002ACB	
	Login Mode MAC Address	ON OFF	
	MAC Address	B8-98-B0-00-2A-CB	
Hostname			SW5000ED-002ACB
HUSINAME			30000ED-002ACB
	MAC address		
Login Mode			ON OFF
0			
MAC Address			B8-98-B0-00-2A-CB
MAC Address			D0-30-D0-00-2A-CD



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 38). 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.

DHCP	ON OFF
IP Address	010.020.040.086
Subnet	255.255.255.000
Gateway	010.020.040.001

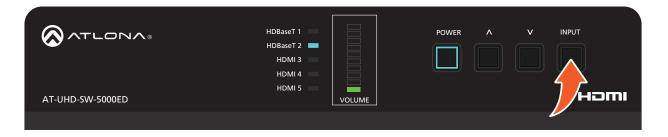
7. Click Save Setting to commit changes. Click Cancel to abort changes. Changes will take effect immediately.



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 38). 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 38). 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.

Gateway	010.020.040.001
Telnet Port	23
	20
Hostname	SW5000ED-002ACB
Login Mode	ON OFF
Ū.	
MAC Address	B8-98-B0-00-2A-CB

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: <u>https://tools.ietf.org/html/rfc1123</u>

1. Login to the web server. Refer to Introduction to the Web Server (page 38). 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.

		AT-UHD-SW-5000ED Setup
	Home Network Setua Settinas Config	EDRO Control HDVS Wedne HDD1
	DHCP	ON OFF
	IP Address Subnet	010.020.040.086
	Gateway	200,200,200,000
	Telnet Port	23
	Hostname	SW5000ED-002ACB
	Login Mode	ON OFE
	MAC Address Save Setting	B8-98-80-00-2A-CB Cancel
Telnet Port		23
TemerFort		23
L La admanda		
Hostname		SW5000ED-002ARB
La via Marda		
Login Mode		<u>ON</u> <u>OFF</u>
MAC Address		B8-98-B0-00-2A-CB
	Savo Sottino	

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 38). 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.

Ģ		AT-UHD-SW-5000ED Settings	
	lome Network.Selup Settings Conf	a EDID Control HDVS Undate HDUT	
	System Settings Auto Switch Factory Default	on v off	
	Video Settings Source	Input 3 v	
	Audio Settings Volume HDMI Audio Mute HDBT Audio Mute L/R Audio Mute		
Auto Switch			on 🗸
Factory Defa	ault		off
<u>[</u>			on National States and
	Copyright (c) 246	S 2019 Allow Inc. All Rights Reserved. 71 Daggett Dilor, San Jone, CA 10134 UA	

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.

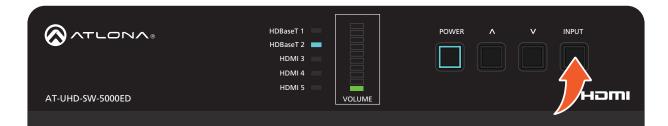
1. Login to the web server. Refer to Introduction to the Web Server (page 38). The default username and password are listed below:

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.

	AT-UHD-SW-5000ED Settin	gs
	Home Network Skille Settlines Config LEND Control HOVS	Ubdete 15801
	System Settings Auto Switch (on ♥) Factory Default (Reset)	
	Video Settings Source Input 3 v	
	Atudio Settings input 3 Volume input 4 HDMI Audio Mute input 4 HDMI Audio Mute off v UR Audio Mute off v	
Video Settings		
Source		Input 3 🗸
		Input 1
		Input ?
Audio Settings		Input 3
Volume		Input 4
HDMI Audio	Mute	Input 5
HDBT Audi	o Mute	off 🗸

- 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

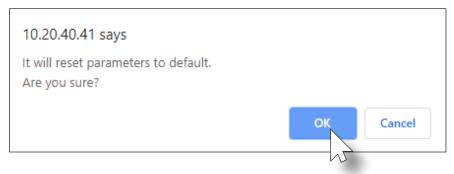
1. Login to the web server. Refer to Introduction to the Web Server (page 38). The default username and password are listed below:

Username: root Password: Atlona

- 2. Click **Settings** in the menu bar.
- 3. Click the Reset button, next to Factory Default.

		AT-UHD-SW-5000ED Settings	
	tione Network.Stein Settings Confe System Settings Auto Switch Factory Default Video Settings Source Auto Settings	u LDD Control 1003 Models 10211	
Auto Switch	Volume HDMI Audio Mate HOBT Audio Mate LIR Audio Mute		on v
Factory Def			Reset
	Copyright bit 244	2.019.00ms Nr., Al Highlin Strawnel, 19 Fuguet Diver, San Jone, CA 1913 VA.	-

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.

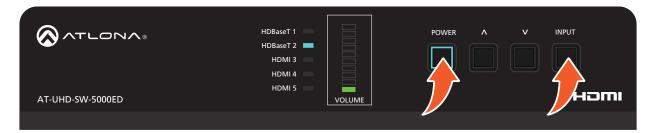


- 5. Once the factory-default process is complete, the web server **Login** screen will be displayed.
- 6. The factory-reset process is complete.



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 38). 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.

		AT-UHD-SW-5000ED Settings	
	Home Network Seture Settings §	Candra 1000 Control H003 Stadate H003	
	System Settings Auto Switch Factory Default	on v Reset	
	Video Settings Source	[input3v]	
	Audio Settings Volume HDMI Audio Mute HDDT Audio Mute L/R Audio Mute		
Audio Settings			
Volume		dB	
HDMI Audio Mute		off 🗸	
HDBT Audio Mute		off 🗸	
LID Andie Marte			_
	Copyright (r	get (s) 1413 3474 Albura Inc. All Rights Reserved. 70 Dauget Dans, San Jone, CA 16134 U.M.	

4. Output audio level adjustment is complete.



Audio Output Muting

1. Login to the web server. Refer to Introduction to the Web Server (page 38). 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.
- 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.

⊘^		AT-UHD-SW-5000ED Settings
How	Network Sellor Settings	Canfig EDD Control HOXS blocks HOHT
	Source Audio Settings Volume HDM Audio Mute HDBT Audio Mute L/R Audio Mute	
Audio Settings		
Volume		dB
HDMI Audio Mute		off 🗸
HDBT Audio Mute		off v
L/R Audio Mute		off V
		off



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 Introduction to the Web Server (page 38). 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.

	AT-UHD-SW-5000ED Config	
Hone	Netheolit.Selice Settinge Confine EDD Control 10203 Undate 10001	
	Change user name and password: Old user name and password Username root	
	Password New user name and password	
	Username root Password	
	PW again	
	No. Username Password Delete User 1 Delete Delete User 2 Delete Delete User 3 Delete Delete	
	Old user name and password	
Username	root	
Password		
	Capyright (3) 1985-2995 Million Inc. All Rights Discovers. 79 Traggett (Sins, Sie Jone, CA 90159 KSA	

- 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 38). 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.

<u>⊗</u> ^	AT-UHD-SW-	5000ED Config	
Home	Network Setup Settings Config EDID Contr	ol HDVS Vodate HDDT	
	Change user name and password: Old user name and	password	
	Username root Password		
	New user name and	d password	
	Username root Password		
	PW again		
	No. Username	Password Delete	
	User 1 minion1 User 2	abcd1234I Delete	
	User 3	Delete	
	RS232 Baudrate Databit System 115200 V 8 Bits	Parity Stopbit	
	Input1 115200 - 8 Bits Input2 115200 - 8 Bits	✓ None	
	Output2 115200 • 8 Bits	V None V 1 Bit V	
	Factory Default	Cancel	
	Eave Setting	Canool	
No.		Username	Password
User 1		minion1	abcd1234!
User 2			
User 3			
03010		I	

- 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 38). The default username and password are listed below:

Username: root Password: Atlona

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

		AT-UHD-SW-5000ED Config	
	Nom Change user har User User <	Cld user name and password root New user name and password root root d	
No. User 1 User 2 User 3		Username minion	Password abcd1234!

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.



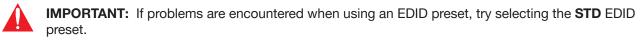
EDID Management

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 35)**.



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 38). 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.

	AT-UHD-SW-5000ED EDID	
Home Network St		
	ND Settings Input 1: STD Input 2: STD Input 3: STD Unput 4: STD ATL 1080P 2CH Input 5: ATL 1080P 3D Multi CH Input 2: ATL 1080P 3D DU Input 3: ATL 1080P 3D DU Input 3: ATL 1080P 3D DU Input 3: ATL 200P 3D Mult CH Input 3: ATL 200P 3D Mult CH Input 4: ATL 200P 3D Mult CH Input 5: ATL 280x800 RGB 2CH ATL 1980P BD CH Input 5: ATL 280x800 RGB 2CH ATL 1980P DU Input 5: ATL 280x800 RGB 2CH ATL 1980P DU Input 5: ATL 280x800 RGB 2CH ATL 1980P DU Input 5: ATL 280x800 RGB 2CH ATL 1980P DU Input 5: ATL 280x800 RGB 2CH ATL 1980P DU	
	Output 1: ATL 1280/e00 R6B DVI estect v Output 2: ATL 2160P 2CH select v ATL 2160P Multi CH select v select v ATL 4X420 2CH ATL 4K420 XMulti CH Non saved Non saved Non saved select v	
Inpu	+ 1 -	STD
Inpu		ATL 1080P 2CH
		ATL 1080P Multi CH
		ATL 1080P DD
		ATL 1080P 3D 2CH
Inpu		ATL 1080P 3D Multi CH
Inpu		ATL 1080P 3D DD
Inpu		ATL 720P 2CH
Inpu		ATL 720P DD
Inpu	l D.	ATL 1280x800 RGB 2CH
		ATL 1366x768 RGB 2CH

5. EDID preset selection is complete.



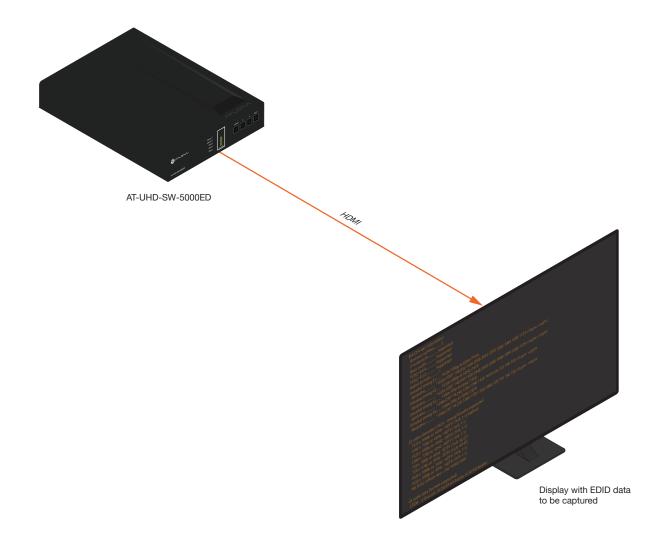
Storing EDID Data

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.



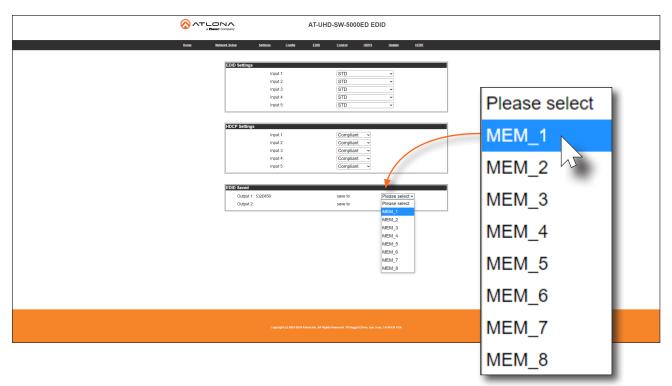
2. Login to the web server. Refer to Introduction to the Web Server (page 38). The default username and password are listed below:

Username: root Password: Atlona

- 3. Click EDID in the menu bar.
- 4. Locate the EDID Saved section.



 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.

ed EDID	
save to	Ple
save to	Ple
	save to

- 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.



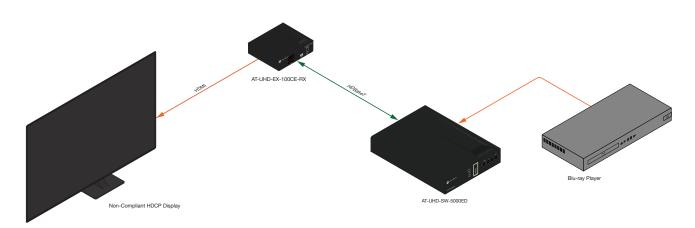
Device Operation

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 38). 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.

HDCP Settings	
Input 1:	Compliant ~
Input 2:	Compliant ~
Input 3:	Compliant
Input 4:	Noncompliant
Input 5:	Compliant V ~



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.

	5000ED Login
Please input usernam	and password.
Username: Password: Control Login	Clear

4. Enter the username and password in the **Username** and **Password** fields. The default username and password are listed below:

Username: root Password: Atlona

Please input us	sername and password.
Username:	root
Password:	•••••
Login	<u>Clear</u>

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.

		AT-UHD-SW-5	000ED		
Home Network Setup	Settings Config	EDID Control	HDVS	Update	HDBT
System I	nfo. Model:	AT-UHD-SW-5000ED			
	Firmware Version: On-Time(h-m):	1.1.0_DS01 486:32			
Video Inf	Active Input:	HDMI3			
	Signal Type: Video Format: Aspect: Color Space:				
	Color Depth:				

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.

	AT-UHD-SW-5000ED Setup
Home Network Setup Settings Config	EDD Control HDVS Module HDDT
DHCP IP Address Subnet Gateway Teinet Port Hostname Login Mode MAC Address	ON OFF 010.020.040.086
Copyright (c) 2003-201	19 Albert Sc. Al Right Reserved. 78 Engett Direc, San Jane, CA SIGN 51A

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 19) 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 21) 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 23) 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.

	AT-UHD-SW-5000ED Settings
Home Network Setup Settings Co	anlia EDID Control HDVS Vodate HDBT
System Settings	
Auto Switch Factory Default	on v Reset
Video Settings Source	Input 3 v
Audio Settings	
Volume HDMI Audio Mute	lengen set
HDBT Audio Mute	

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 24).

Factory Default

Click the **Reset** button to reset the AT-UHD-SW-5000ED to factory-default settings. Refer to **Resetting to Factory-Defaults (page 26)** 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 30) 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.

Q			AT-UHD-SW-5	5000ED Config	3		
łs	ne <u>Network Setup</u> Sett	ngs Config	EDID Contro	HDVS	Update HDBT		
	Change user name a	Change user name and password:					
			Old user name and	password			
	Usemam	e root	t				
	Password			_			
			New user name and	nassword			
	Usernam			pacentera			
	Password						
	PW agair						
	No.	Usern	ame	Password	Delete		
	User 1				Delete		
	User 2				Delete		
	User 3				Delete		
	RS232 System	Baudrate 115200	Databit ✓ 8 Bits	Parity ✓ None	Stopbit V 1 Bit		
	Input1	115200	 8 Bits 	 None None 	 ✓ 1 Bit ✓ 1 Bit 		
	Input2	115200	✓ 8 Bits	✓ None	✓ 1 Bit		
	Output2	115200	✓ 8 Bits	 None 	✓ 1 Bit	¥	
	Factory Default						

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.

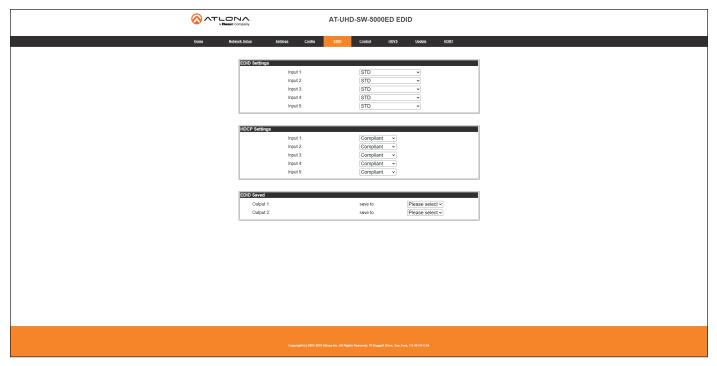
Factory Default

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 33) 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.



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 dropdown 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**.

	AT-UHD-	SW-5000ED Control
Home	Network.Seture Settings Config EDID	Control HDVS Update HDBT
	Ditton Control Selection Power Volume/Mule Display Mode CEC Centrol	None v Audo Out v DispSW Alion v
	Power System Settings Display Auto Power On Display Auto Power Of Power Bittion Lock Lamp Cool Down Timer (0~300) Auto Power Off Timer (10~240) Display Warn Up Timer (0~300) Control Type Display Mode	on off Enabled 0202020 Enabled 0202020 In Sec Save If Sec V DispSWAKen V
	FE-5232/IP Commands Mandiacturer Genenic Products Genenic Model Genenic Display Commands Display Commands (Using a commands Multiple corr Repeat Command	v v
	Status Disabled → (2 → √) ON PW1 OFF PW0 Volume+ VOL+ Volume- VOL+ Mute MUTE Mute Off MUTE OFF Mute Off MUTE OFF	500 500 500 500 500 500 500 500 500
	Copyright (c) 2023 2019 Advent live, All Rights	Renewed, 78 Deggett Dines, San Jose, CA 1853 USA

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.

	mpany.	AT-UHD-SW-5000ED HDVS	
Home Notwo	rk Setup Settings Config	EDID Control HDVS Vedate HDBT	
	Input 1 Unknown Input Selection Prefered Resolution Auto Switch Display Switch	Referent Hotal 1 ∨ B00.000 ∨ Off ∨ Unknown Chairs Dapley Switch	
	Input 2 Model Name IP Link	AT-HDVS-210U-TX-WP 10.20.100.106	
Copyright (1) 2012-2019 Advance Rev. All Highlit Bravevell. 19. Diagoni Direse, San June, CA 80134 USA			

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.

	AT-UHD-SW-5000ED Update		
Home Network Setup	Settines Contra EDR Contral HDVS Usdate HDET		
	Firmware UpdAte Choose File No file chosen Update 0%		
	Valens Update Choose File No file chosen 0%		

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.

Home Network Settle Settlings Code EDD Code HOX3 Model HOBBaseT Cohannel Cable Test HOBBaseT Zone Output 2 ~ Statt TX Version Test instructions			
HDBasof Zorio Output 2 v Start			
RV version Tubes Code Valoe Quality Vises R0 Cable Quality R0 Cable Quality R0 Cable Quality R0 Fig R			

HDBT Zone

Click this drop-down list to select the output channel (**ZONE OUT**) to test. Refer to HDBaseT Testing (page 55) 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 38). 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.

	AT-UHD-SW-5000ED Update
Home Referent. Softwa	Settion Control LDDO Control HDDS Website HDDH
	Firmware Update Choose File No Ite doosen Control Offic
	Valens Ujdate Choose File, No file choose Cystem Choose File, No file Choose File, No file Choose
Choose File button	
	Copyright (s) 2013 Millionistics, All Rights Strawment, Tr Hoggert Straw, San Loss N134 934

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



Appendix

Using the USB Interface

Requirements:

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

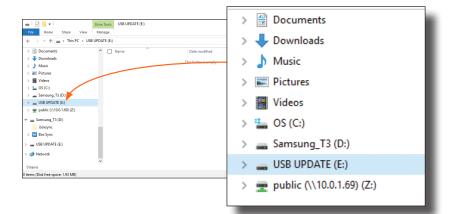


- 4. Simultaneously press and hold down the **INPUT** button on the front panel, while connecting the power supply to the AT-UHD-SW-5000ED. *Continue to hold down the* **INPUT** *key for five seconds* <u>AFTER</u> *the power supply has been connected*.
- 5. Release the **INPUT** key.

AT-UHD-SW-5000ED	HDBaseT 1 HDBaseT 2 HDMI 3 HDMI 4 HDMI 5 VOLUME	
		\sim

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 38) 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.

	AT-UHD-SW-5000ED HDBT	
Home Network Set	e Settinos Conto EDBO Control HDYS Vodate HDB1	
HDBaseT Channel Cable HDBaseT Zone TX Version RX Version TMDS Clock Cable kergin samuel Vdeo Quality reve REN	ut.2 Net ut.2 Test Instructions	
Cable Quality PairA — Cable Quality PairA — Cable Quality PairC — Cable Quality PairC — Cable Quality PairD —	If the RED and Calle quality all pass, the system is Surcharing as expected: If all is passed but due from or of the Cable pairs referentiation.	
	HDBaseT Channel Cable Test HDBaseT Zone Output 2 V Output 2	Start
	TX Version RX Version TMDS Clock	Test Instructions 1. Select HDBT Zone 2. Connect active HDMI source(DVD etc) 3. Ensure source and sink are operating 4. Click the Start button
	Cable length (Estimated) Video Quality (Video BER)	Use highest source resolution without exeedin

- 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.

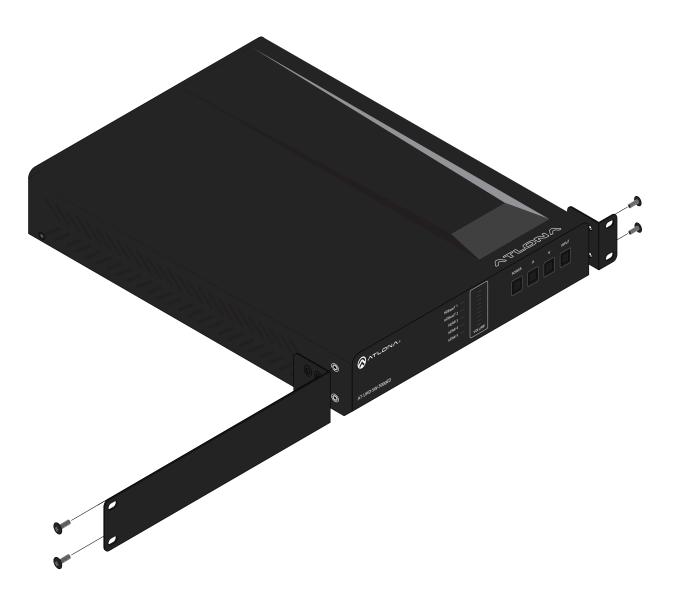


Mounting Instructions

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.

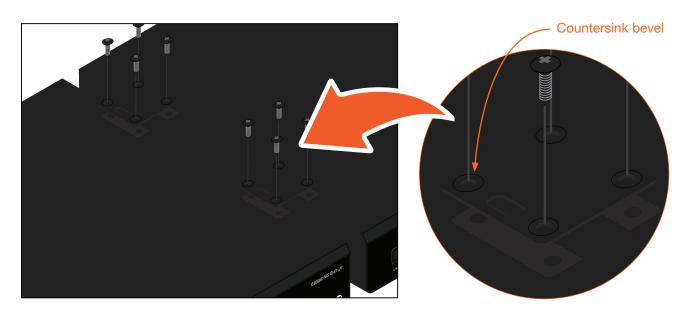




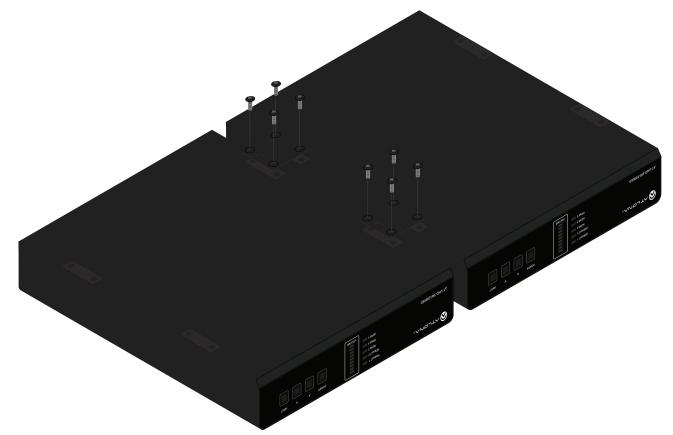


Dual Unit Rack Installation

- 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.



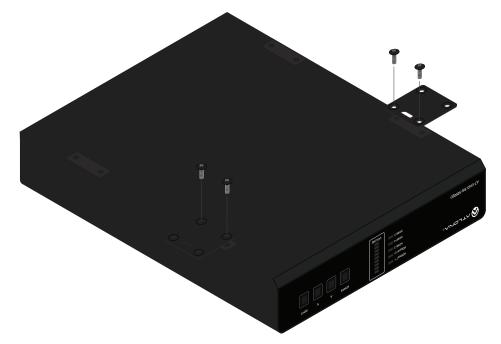
3. Turn the attached units over and install the rack ears (sold separately) to one side of each enclosure using the included screws.





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.

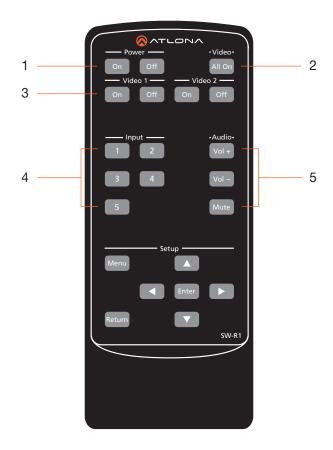


IR Remote Control



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.



Appendix

Specifications

Video								
Signal Type	HDMI							
HDCP	1.4							
Pixel Clock	300MHz	300MHz						
UHD/HD/SD	4096×2160@60 ⁽¹⁾ /50	4096×2160@60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24Hz			1280x720p@60/59.94/50Hz			
	3840×2160@60 ⁽¹⁾ /50	3840×2160@60 ⁽¹⁾ /50 ⁽¹⁾ /30/25/24Hz			720x576p			
	2048x1080p	2048x1080p			720x576i			
				640x480p				
				640x480i				
		1920x1080i@60/59.94/50Hz						
VESA	2560×2048	10 1/ 001 12		1366×768				
VEGA	2560×1600			1360×768				
	2048×1536			1280×1024				
	1920×1200			1280×800				
	1680×1050			1280×768				
	1600×1200			1152×768				
	1600×900			1024×768				
	1440×900			800×600				
	1400×1050			640×480				
Color Space	YUV, RGB	YUV, RGB						
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	4:4:4, 4:2:2, 4:2:0						
Color Depth	8-bit, 10-bit, 12-bit							
A								
Audio								
HDMI / HDBaseT	PCM 2.0		Dolby® Digita					
Pass-Through Formats	LPCM 5.1		Dolby Digital					
	LPCM 7.1	LPCM 7.1 Dolby TrueHD				®		
		Dolby Atmos						
S/PDIF	PCM 2.0		Dolby [®] Digita	al DTS-HD Master Audio™				
Bit Depth	Up to 24 bits							
Analog Audio								
Format	Maximum analog o	utput: bal	anced +18dE	Bu @ 0 dBfs. LF	PCM 2.	0 only		
Sample Rate	32 kHz, 44.1 kHz, 4							
campio nato		0 11 12, 00	, 10 12, 00 KI	, 170, 101Z,				
Control								
RS-232	Device control and	Device control and configuration						
		Bidirectional pass-through from control s			BaseT			
	Supported baud rates: 2400, 4800, 9600,							
IP	Protocols: HTTPS, Telnet, mDNS							
	Modes: DHCP, Static - selectable through			front panel and web server				
CEC Support	Yes							
	165							
Resolution / Distance	4K/UHD - Feet / Me	eters		1080p - Feet	/ Meter	ſS		
HDMI IN/OUT	15	5		30		10		
CAT5e	230			330		100		
CAT6/6a/7	330	100		330		100		
UA10/0a/1	330	100		330		100		



Appendix

Buttons and Indicators				
Buttons:				
POWER, UP, DOWN, INPUT	4 - Momentary, tact-type			
Indicators:				
HDBaseT 1 - HDBaseT 2,				
HDMI 3 - HDMI 5	5 - LED, blue			
VOLUME	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 / unba	lanced 2-channel		
RS-232	1 – 3-pin captive screw (bidirectional)			
IR IN/OUT	1 – 5-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 / 3.125 A DC			
	Output: 46 V / 3.123 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	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			

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



