

# 4K/UHD Five-Input Universal Matrix Switcher with Wireless Presentation Link





# Version Information

Version	Release Date	Notes
1	Dec 2017	Initial release
2	Feb 2018	Updated to reflect firmware 1.0.1
3	Apr 2018	Updated to reflect firmware 1.0.3
4	May 2018	Updated to reflect firmware 1.1.0
5	Jul 2018	Updated to reflect firmware 1.1.1
6	Aug 2018	Updated to reflect firmware 1.2.0
7	Sep 2018	Updated to reflect firmware 1.2.1
8	Oct 2018	Updated to reflect firmware 2.0.0
9	Jan 2019	Updated to reflect firmware 2.2.0
10	Mar 2019	Updated to reflect firmware 2.3.0
11	May 2019	Updated to reflect hardware revision C
12	May 2019	Updated to reflect firmware 2.4.0
13	Aug 2019	Updated to reflect firmware 2.5.0
14	Nov 2019	Updated to reflect firmware 2.7.0; URL casting has been removed from the Administration > Pre-Release page (page 107). Refer to the Release Notes for more information.
15	Dec 2019	Added documentation on how to cast using Google Home from a mobile device.
16	Jan 2020	Updated to reflect firmware 2.8.1
17	Nov 2020	Updated for 2.9.0 firmware. See Release Notes for more information.
18	May 2021	Firmware 2.9.2 - Added HDBaseT Version to the Info page (page 76) and Status page (page 81) of the web GUI.



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# **Operating Notes**



**IMPORTANT:** Visit <u>http://atlona.com/product/AT-UHD-SW-510W</u> for the latest firmware updates and User Manual.



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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.

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- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
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- 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.



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# Table of Contents

Introduction	9
Features	9
Package Contents	9
Panel Description	10
Front Panel - Revision A and B	10
Front Panel - Revision C	10
Rear Panel - All Revisions	11
Installation	12
Connectors	12
RS-232	12
Audio	12
Relay Triange L/O	13
	13
Connection Instructions	14
	17
Getting the IP Address	17
Getting the IP Address without a Display	17
Switching the IP Mode Using the Front Panel	18
Auto IP Mode	18
Setting the IP Address using the Web Server	19
Resetting to Factory-Default Settings	20
Device Operation	21
LED Indicators	21
Logging in to the Web Server	22
Login Registration	22
Logging in after registration	23
Setting the System Date and Time	24
Automatic Adjustment	24
Setting Local Date and Time	25
Using an NTP Server	25
Selecting the Input	26
Switching Modes	27
Matrix Mode	27
Matrix Mode W/ Static Route	29
Auto-Switching Enabling / Disabling Auto Switching	31
The Splash Screen	32
Customizing Text	32
Displaying Metadata	35
Displaying the Wireless Password	36
Cycling Background Images	37
Uploading Custom Images	38
HTML Splash Screens	39
Resetting the HTML Splash Screen	42
Wireless Configuration	43
Access Point Mode	43
Firewall Mode	46
Connect to WiFi Mode	47
Changing the SSID	50
802.1X Authentication	51
Ethernet Connections	51
WIFI Connections	53



# Table of Contents

Casting	54
iOS Devices	54
OS X Devices	55
Microsoft Miracast	57
Google Chrome	57
Audio Management	59
Using External Audio Sources	59
Controlling Audio Output Volume	59
AirPlay Bluetooth Discovery	60
AirPlay / Miracast P2P PIN Codes	61
Changing the PIN Timeout	63
Moderator Mode	64
Display Control Methods	67
Active Video Presence	67
Active Video Presence with Occupancy Sensor	69
Occupancy Sensor	70
Day and Time	71
	72
Changing the Password	72
	15
Configuration and Management Interfaces	74
Web Server	74
Login Register page	74
Login page	75
Info page	76
General page	77
System page	78
Status page	81
Splash Screen page	82
Routing page	85
Display page	86
EDID page	92
Administration > Telnet page	93
Administration > Moderator page	94
Administration > Networking page	95
Administration > Debug page	101
Administration > User Accounts page	102
Administration > Advanced page	103
Administration > Pre-Release page	107
Administration > Audio page	108
Administration > Event Viewer page	109
Appenaix	110
	110
viounting Instructions	115
Single-unit Rack Installation	115
Dual-unit Rack Installation	116
Flat Surface	117
Specifications	118



# Introduction

The Atlona **AT-UHD-SW-510W** is a 5×2, multi-format matrix switcher with wireless presentation capability. It provides universal BYOD (bring your own device) compatibility with HDMI, DisplayPort, and USB-C inputs, plus wireless connectivity for mobile devices. The SW-510W is HDCP 2.2 compliant, and features matrixed or mirrored HDMI and HDBaseT outputs. The HDBaseT output is ideal for use with the Atlona AT-UHD-EX-100CE-RX-PSE HDBaseT receiver, or the AT-HDVS-SC-RX scaling HDBaseT receiver. It also includes automatic input switching and automatic display control capability, both applicable to wired and wireless source connections. This unique multi-format matrix switcher and wireless gateway provides a universal connectivity solution for presentation devices in a wide range of professional AV applications.

The USB-C w/ charging port on the SW-510W is ideal for newer Mac, Chromebook, and Windows PCs. All inputs and the local HDMI output are compatible with video signals up to 4K/UHD @ 60 Hz with 4:4:4 chroma sampling, as well as data rates up to 18 Gbps. For integration convenience and flexibility, simultaneous 18 Gbps HDMI and 10 Gbps HDBaseT outputs make the SW-510W ideal for various presentation scenarios such as primary and confidence displays in a corporate auditorium or lecture hall. The HDBaseT output extends video, audio, control, and Ethernet up to 100 meters. (For AV signals exceeding 10 Gbps, 4K/UHD video will be subsampled to 4:2:0, or HDR metadata removed for HDBaseT transmission.)

# Features

- Two HDMI®, one DisplayPort, and one USB-C input, plus an input for wireless AV.
- Matrixed or mirrored HDBaseTTM and HDMI outputs.
- Wireless AV gateway for iOS®, AndroidTM, Mac®, ChromebookTM, and Windows® devices.
- 4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling, plus support for 4K/60 4:4:4 and HDR formats on local ports (HDMI, USB-C, and DisplayPort).
- HDCP 2.2 compliant.
- Automatic input selection and automatic display control.
- USB-C port supports device charging for laptops, tablets, and smartphones.

# Package Contents

- 1 x AT-UHD-SW-510W
- 1 x Captive screw connector, 5-pin
- 1 x Captive screw connector, 4-pin
- 2 x Captive screw connector, 3-pin
- 2 x Wi-Fi antenna modules
- 1 x USB-C cable, 2 meters
- 1 x 24V DC power supply
- 2 x Mounting plates
- 4 x Mounting screws
- 1 x Installation Guide



# Panel Description

**NOTE:** As of April 2019, Revision C is being shipped. Hardware revisions A and B were shipped prior to April of 2019. However, all hardware revisions support the latest version of firmware.



### 1 Input Indicators

Displays the currently selected input.

#### 2 INPUT

Press this button to cycle through each input.

#### 3 Cursor Buttons

Adjust the volume on the display.

#### 4 **DISPLAY**

Press this button to toggle the power state of the desired display.





#### 1 Input Indicators

Displays the currently selected input.

#### 2 INPUT

Press this button to cycle through each input.

### 3 IP

Press this button to display the IP address of the AT-UHD-SW-510W on the connected display.

#### 4 POWER

Press and hold this button for five seconds to poweroff the AT-UHD-SW-510W. To power-on the unit, disconnect and reconnect the power cord on the rear panel.

#### 5 **DISPLAY**

Press this button to toggle the power state of the desired display.



# Panel Description

# **Rear Panel - All Revisions**



### 1 AUDIO IN

Connect a 3.5 mm mini-stereo cable from an analog audio source to this connector.

## 2 AUDIO OUT

Use the included captive screw connector to connect a balanced audio device.

#### 3 USB

Connect the included Wi-Fi modules to the **WIFI** and **MIRACAST** ports. Refer to Connection Instructions (page 14) for more information. Note that on Revision A hardware, the **MIRACAST** port is labeled **WIFI**.

### 4 RELAY

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

#### 5 TRIGGER I/O

Connect voltage-controlled device to this port. A 4-pin captive screw connector is required.

### 6 RS-232

Use the included 3-pin captive screw connector to connect an RS-232 controller or automation system.

#### 7 USB-C

Connect a USB-C cable from this port to a USB-C source.

## 8 DP IN

Connect a DisplayPort device to this port.

### 9 HDMI IN

Connect an HDMI cable from each of these ports to a UHD/HD source.

#### 10 HDMI OUT

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

#### 11 HDBaseT OUT

Connect to a locally powered HDBaseT receiver such as the AT-UHD-EX-100CE-RX-PSE.

#### 12 LAN

Connect an Ethernet cable from this port to the network.

### 13 DC 24V

Connect the included 24 V DC power supply to this power receptacle.



# Installation

# Connectors

## **RS-232**

The AT-UHD-SW-510W provides an RS-232 port which can be used to control a display connected to the HDMI output. Atlona recommends controlling the AT-UHD-SW-510W 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-510W.



## Audio

The AT-UHD-SW-510W provides the ability to output two-channel balanced analog audio on the **AUDIO OUT** port, using the included 5-pin captive screw connector.

Use wire strippers to remove enough insulation to allow each wire to be securely fastened to each terminal of the captive screw connector block and connect the wires as shown.



## Balanced XLR audio



**NOTE:** If unbalanced audio is needed, then it is recommended to use a stereo balanced to unbalanced converter.



# Relay

The AT-UHD-SW-510W provides a **RELAY** port, allowing the control of screens, curtains, and other devices. Use a 48 V DC relay with no more than 1 A current draw.

When the AT-UHD-SW-510W is powered-on or rebooted, C1 and C2 are set to the Normally Open (NO) state.



## Trigger I/O

The **TRIGGER I/O** port allows voltage-controlled devices, such as an occupancy sensor, to be connected to the AT-UHD-SW-510W. Use the included 4-pin captive screw connector to connect the device. Voltage range is 3 to 30 V DC.







# **Connection Instructions**

- 1. Connect a USB-C cable from a source to the USB-C (1) port.
- 2. Connect a DisplayPort cable from a source to the **DP IN (2)** port.
- 3. Connect up to two UHD/HD sources, using HDMI cables, to the HDMI IN (3) and HDMI IN (4) ports.
- 4. Connect an HDMI cable from the **HDMI OUT** port to a UHD/HD display.
- 5. Connect the included USB wireless antennas to the **WiFi** and **MIRACAST** ports. The **WiFi** port supports Google Cast<sup>™</sup> and Apple AirPlay<sup>®</sup>. The **MIRACAST** port only supports Miracast<sup>™</sup>. The **AUX** port is reserved for obtaining the IP address of the unit and for unit recovery. Refer to IP Configuration (page 17) for more information. Note that on hardware revision A, the **MIRACAST** port is labeled as **WiFi**.





- 6. Connect a category cable (CAT-5e or better), up to 330 feet (100 meters), from the **HDBaseT OUT** port to a compatible receiver, such as the AT-OME-EX-RX.
- Connect an Ethernet cable from the LAN port to the Local Area Network (LAN). Atlona recommends this step and provides access to the built-in web server, which can be used to control and manage the AT-UHD-SW-510W.

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

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:** If connecting the AT-UHD-SW-510W to the Local Area Network (LAN), make sure that the AT-UHD-EX-100CE-RX-PSE is <u>not</u> connected to the LAN, as this will create a network loop.



Installation

- 8. OPTIONAL: Connect a 3.5 mm analog audio cable from an analog source to the **AUDIO IN** port. This audio port is used to embed analog audio on any of the input sources.
- 9. OPTIONAL: Connect the included green 5-pin captive screw connector to the **AUDIO OUT** connector. Refer to Audio (page 12) for wiring information.
- 10. OPTIONAL: Connect the relay leads from the control motors of the projection screen, blinds, or curtains, to the relay outputs to the **RELAY** port, using the included 3-pin captive screw connector. Use a 48 V DC relay with no more than 1 A current draw. Refer to Relay (page 13) for wiring information.
- OPTIONAL: Connect a trigger device, such as an occupancy sensor switch, to the TRIGGER I/O port. A 4-pin captive screw connector is required. Voltages from 3 to 30 V are supported. Refer to Trigger I/O (page 13) for wiring information.
- 12. OPTIONAL: Use the included captive screw connector to connect a serial cable from the **RS-232** port on the AT-UHD-SW-510W, to the RS-232 port on the display. Refer to **RS-232** (page 12) for wiring information.
- 13. Connect the included power supply to the **DC 24V** connector and connect the power cord to an available electrical outlet.
- 14. Follow the on-screen instructions to complete the set-up procedure.







# Installation

# **Connection Diagram**





# **IP** Configuration

The AT-OME-MS52W is shipped with DHCP enabled. Once connected to a network, the DHCP server (if available), will automatically assign an IP address to the unit. Pressing the SHOW IP button will display the current IP address of the AT-OME-MS52W. Alternatively, an IP scanner, along with the MAC address on the bottom of the unit, can also be used to identify the unit on the network.

## Getting the IP Address

- 1. Make sure the AT-UHD-SW-510W is powered.
- 2. Connect a display to the HDMI output (**OUTPUT 1**). Make sure the display is powered.
- 3. Press and release the IP button on the front panel. The IP address of the AT-UHD-SW-510W will be displayed on the screen.

	IP button	_ <u>\</u>
	USB-C	INPUT IP POWER DISPLAY
-	DP HDMI 3	
	HDMI 4	
AT-UHD-SW-510W		IMGH

## Getting the IP Address without a Display

If a display device is unavailable, use the following procedure to obtain the IP address of the AT-UHD-SW-510W.

- 1. Make sure the AT-UHD-SW-510W is powered and ready for operation.
- 2. Insert a USB drive into the **AUX** port and wait approximately 10 seconds, then remove the USB drive from the **AUX** port insert the drive into an available USB port on a computer.
- 3. Two files will be present on the USB drive. One file is formatted for Windows and the other is formatted for Linux.

Windows:AtlonaReport-Win-GWB-20170821200241.txtLinux:AtlonaReport-Unix-GWB-20170821200241.txt

4. Double-click the desired file to open it. The IP address of the AT-UHD-SW-510W is listed under Ethernet #1. An example is shown below.





Installation

**INPUT** button

## Switching the IP Mode Using the Front Panel

- 1. Make sure the AT-UHD-SW-510W is powered and ready for operation.
- 2. Press and hold the INPUT button for at least 15 seconds.

	USB-C	INPUT IP POWER	DISPLAY
	DP		
	HDMI 3		
	HDMI 4		
	BYOD		
AT-UHD-SW-510W			нәті

3. Release the **INPUT** button once all the front-panel LED indicators begin to flash. The unit will reboot. The number of flashes will indicate the currently selected IP mode:

Input LED Indicators flash	Description
Two	DHCP mode
Four	Factory Static IP mode (IP address set to 192.168.1.254)

## Auto IP Mode

If the AT-UHD-SW-510W 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 an Ethernet cable directly from the **LAN** port of the AT-UHD-SW-510W to the LAN port of a computer, then do the following:

- 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. 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.

- 5. Enter the desired static IP address or the IP address provided by the network administrator. If the computer 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.
- 6. Set the subnet mask to 255.255.0.0.
- 7. Click the **OK** button then close all **Control Panel** windows.



### Setting the IP Address using the Web Server

The IP mode of the AT-UHD-SW-510W can also be set using the built-in web server. In order to access the web server, the IP address of the AT-UHD-SW-510W must be known. Refer to Logging in to the Web Server (page 22) for more information.

- 1. Open the desired web browser and enter the IP address of the AT-UHD-SW-510W.
- 2. Login using the required credentials.
- 3. Click Administration > Networking.
- 4. Under the **Ethernet** window group, click the **Mode** drop-down list to select **DHCP**, **Static**, or **Factory Static**. If set to **Static**, the **IP**, **Network Mask**, **Gateway** fields can be modified.

If set to Factory Static, then the IP settings will be set to the following values:

IP Address	192.168.1.254
Network Mask	255.255.0.0
Gateway	192.168.1.1

Н

Both DNS Server fields can be modified when set to either Static or Factory Static mode.

5. Under the Save window group, click the **Save** button, next to **Save Changes**, to commit changes.

**NOTE:** When saving network settings, the AT-UHD-SW-510W may prompt for a reboot.

SW510W-B369	General         Justition         Justition		
General System Status Splash Screen Routing Display EDID	Mode         DISCP         ✓           IF Advass         DISC         SMite           Nation Mass         Factory State         DISC           Gaterary:         10:11:254         DISC	Ethernet	
Administration     Telnet     Moderator     Networking     Debug	DNS Server #2:	MAC Address:	00:1e:06:36:b3:69
Advanced Pre-Release Audio Event Viewer Logout	MAC Actives: 74 dex 30 ef df 55 Moto: Accesse Paint 9500: Bostone State	Mode:	DHCP 🗸
	Show AP Credentation:  Common AP Credentation: No Password in AP Mcde: Hide Password on OSD:	IP Address:	DHCP
	Relate Passocie         -           Converte         40         -           Access Point Flower         0         -           DNS More:         Unit Servern         -           DNS More:         10         8.0	Network Mask:	Static Static
	DNS Server #2: 8.8.4.4 Frewall Mode: None v 802.fr. Security Enable:	Gateway:	10.1.1.254
	Save Save Charges Save Revert Charges Revert Factory Revel Settings Read	DNS Server #1:	
		DNS Server #2:	
		802.1x Security Enable:	
	$\backslash$		
		Save	
	$\backslash$	Save Changes:	Save
		Revert Changes:	Revert
		Factory Reset Settings:	Reset



# **Resetting to Factory-Default Settings**

If necessary, the AT-UHD-SW-510W can be reset to factory-defaults from the front panel. Press and hold the **DISPLAY** button for 15 seconds to reset the AT-UHD-SW-510W to factory-default settings. Note that the AT-UHD-SW-510W will be placed in DHCP mode, as part of the reset procedure. The AT-UHD-SW-510W can also be reset through the web GUI. Refer to System page (page 78) for more information.

	DIS	PLAY button
	USB-C	INPUT IP POWER DISPLAY
	DP	
	HDMI 3	
	HDMI 4	
	BYOD	
AT-UHD-SW-510W		нәт



# **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-510W. The **POWER** button has a backlit LED indicator.

LED		Description
POWER	Solid blue	Unit is powered and is in normal operating mode.
	Solid red	Unit is powered and is in standby mode.
		• Unit is booting.
	Off	Unit is not powered.
USB-C DP HDMI 3 HDMI 4 BYOD	Solid blue	• The input is the currently selected (active) input.
	Off 🗖	The input is not active.
IP MODE	Flash blue (4x)	• Flashes twice to indicate that the unit is being set to static IP mode and will be assigned the IP address of 192.168.1.254.
	Flash blue (2x)	<ul> <li>Flashes four times to indicate that the unit is being set to DHCP mode. Refer to IP Configuration (page 17) for more information.</li> </ul>
	Off	Normal operating mode.



# Logging in to the Web Server

Most of the AT-UHD-SW-510W operation is handled through the built-in web server. In order to access the web server, the IP address of the unit must be known. Refer to IP Configuration (page 17) for more information.

# Login Registration

- 1. Launch the desired web browser and enter the IP address of the AT-UHD-SW-510W in the address bar.
- 2. The AT-UHD-SW-510W Login Registration page will be displayed.

	Ple	Asse Register a User Name and Password	
	Please Reg	jister a User Name and Pa	assword
	User	admin	
	Password	•••••	
	Confirm	•••••	
	-	Regist	

- 3. Enter the desired username in the User field. In the example above, the username admin is used.
- 4. Enter the desired password in the **Password** field.



**IMPORTANT:** The password must contain a minimum of 8 characters, including: 1 uppercase character, 1 lowercase character, and 1 number. Note that the **Password** and **Confirm** fields will be masked when enter the password.

- 5. Verify the password by entering it in the **Confirm** field.
- 6. Click the **Register** button.
- 7. The Info screen will be displayed. Refer to Info page (page 76) for more information.
- 8. The login registration process is complete.



## Logging in after registration

- 1. Launch the desired web browser and enter the IP address of the AT-UHD-SW-510W in the address bar.
- 2. Enter the correct username and password in the respective fields.
- 3. Click the **Login** button.

**NOTE:** If using a secure connection, click the **Secure Login** button.

	Please Login	
User	admin	
Password	•••••	
	Login Secure Login	

4. The **Info** page will be displayed and the login process is complete. Refer to **Info** page (page 76) for more information.



# Setting the System Date and Time

The AT-UHD-SW-510W uses the internal clock to store the current date and time. When setting the time and date, *Universal Coordinated Time (UTC) must be used*.



**IMPORTANT:** In order for proper unit operation, it is critical that the AT-UHD-SW-510W be set to the correct UTC time setting.

## Automatic Adjustment

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **System** in the side menu bar.
- 3. Under the **Time** window group, click the <u>here</u> link to launch a web browser and obtain the current UTC. Both the current local time and date will be set.



**NOTE:** Date and time can also be manually adjusted by clicking the **Set** button. However, this is not recommended.

Contractions Co	System Display have SISSISTICESS Autor SISSISTICESS Autor SISSISTICESS Autor SISSISTICESS Autor SISSISTICESS From Control of Autor SISSISTICES System Sissistic Autor SISSISTICES Autor SISSISTICESS Autor SISSISTICESS				
	Configuration United Downlead Upterst Documentation United National If Doppennet Observed API Ocumentation: Downlead	Time	System Date / Time:	Set Nov 20 2020, 21:22 [UTC]	
				<ul> <li>System time must be set as UTC.</li> <li>Find the current time here.</li> </ul>	
			Local Date / Time:	Set	
			INTE Server.	poor.ntp.org	



## Setting Local Date and Time



**IMPORTANT:** If the Local Date / Time field appears highlighted in **red** (shown above), then this task must be performed to ensure proper functionality of the AT-UHD-SW-510W.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **System** in the side menu bar.
- 3. Under the **Time** window group, next to **Local Date / Time**, click the **Set** button. Both the current local time and date will be set.

### Using an NTP Server

If NTP is functioning correctly, then the date and time will be set automatically. However, the local time will need to be set.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **System** in the side menu bar.
- 3. Under the **Time** window group, enter the desired server in the NTP Server field. The default NTP server is pool.ntp.org.
- 4. Click the Set button, next to Local Date / Time.

SV951044.8509 Indo General System Status Sylach Screen Roufing Disjoy EDD - Administration Logout	System         Eventy Name         Eventy Name           Restart         Restart           Pactors         Restart           Pactors         Restart           Time         Restart           System Name rule / Sectors         Sectors           Local Date / Time         Set           Attr Server         Set           For Market         Set           Attr Server         Set           Formware         Set	
	Liden have: 24 05 25% 50% 10% Matter Ware: 23 8 Finansa Varias: 23 8 Finansa Varias: 006 Updat Finanse: 006 Alter of MCU finances Configuration Destinat: 006164 Ubbat Decumentation Lise Meas: 006064 AP Decumentation Lise Meas: 006064 AP Decumentation Deceloral	Time       System Date / Time:       Set       Nov 20 2020, 21:23 [UTC]         • System time must be set as UTC.       Find the current time here.
		Local Date / Time: NTP Server: pool.ntp.org



# Selecting the Input

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Routing** in the side menu bar.
- 3. Under the Input Selection window group, click the desired input.

Sverious Estas Sverious Estas Stata Setas Setas Setas Setas Setas Setas Estas	Input Selection	Information  Infor	USBO HDMI3 HDMI4 BYOD

The diagram below, shows each input on the AT-UHD-SW-510W, and its associated **Input Selection** button within the web server.





# **Switching Modes**

The AT-UHD-SW-510W features two switching modes: **Matrix Mode** and **Matrix Mode with static route**. Each of these modes will be covered in the following section and are configured using the built-in web server.

## Matrix Mode

This mode allows the AT-UHD-SW-510W to independently switch between any input to any output. Auto switching and display control is disabled in Matrix Mode.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Routing** in the side menu bar.
- 3. Click the Switching Mode drop-down list and select Matrix Mode.



**IMPORTANT:** When the AT-UHD-SW-510W is set to Matrix Mode, both auto-switching and display control will be disabled.

Constraints     Constrain	Information Mark noncel To may appropriate after at the time data watching using approximation of the utility of the data watching using the observation of the utility of the data watching using the observation of the utility of the data watching using the observation of the utility of the data watching using the observation of the utility of the data watching using the observation of the utility of the data watching using the observation of the utility of the data watching using the observation of the utility of the data watching using the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the utility of the data watching the observation of the data watching of the data watching the observation of the data watching	
	Matrix Switch: Disabled Disabled Matrix Mode Matrix Mode w/static route	

4. The Matrix Switching window group now contains the following options:

Matrix Switching	101	
Matrix Switch:	Matrix Mode	~
Matrix Mode HDMI Source:	BYOD	~
Matrix Mode HDBaseT Source:	BYOD	~



5. Click the Matrix Mode HDMI Source drop-down list and select the input to be routed to the HDMI OUT port.

Matrix Switching		
Matrix Switch:	Matrix Mode	~
Matrix Mode HDMI Source:	BYOD	~
Matrix Mode HDBaseT Source:	USB-C Display Port HDMI 3 HDMI 4 BYOD	

6. Click the **Matrix Mode HDBaseT Source** drop-down list and select the input to be routed to the **HDBaseT OUT** port.

Matrix Switching		
Matrix Switch:	Matrix Mode	~
Matrix Mode HDMI Source:	USB-C	~
Matrix Mode HDBaseT Source:	BYOD	~
	USB-C Display Port	
	HDMI 3	
	HDMI 4	
	BYOD	

7. Matrix Mode configuration is complete.



**NOTE:** If the input for **Matrix Mode HDBaseT Source** is not selected, then the input that was selected for the **Matrix Mode HDMI Source** will be also output on the **HDBaseT OUT** port.



## Matrix Mode w/ Static Route

This mode is desirable when integrating the AT-UHD-SW-510W with a video conference system and allows for auto switching and display control. In this mode, both static input and output routing are specified. Auto-Switching (page 31) must be enabled. However, the specified static input will be removed from the auto-switching pool. For example, if the **HDMI IN 3** port is specified as a static input, then auto-switching will "skip" this port when auto-switching.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Routing** in the side menu bar.
- 3. Click the Matrix Switch drop-down list and select Matrix Mode w/static route.

SV510V (330) big General System Status System Status System Backary Constantion Lagout	Input Selection	Internation  Inter
		Matrix Switch: Disabled Disabled Matrix Mode Matrix Mode w/static route

4. The Matrix Switching window group now contains the following options:

Matrix Switch:	Matrix Mode w/static route	~
Matrix Mode Static Output:	HDBaseT	~
Matrix Mode Static Source:	BYOD	~



5. Click the **Matrix Mode Static Output** drop-down list and select the output that will be "static". This is the output that will not change.

Matrix Mode Static Output: HDBaseT	×
	~
Matrix Mode Static Source: HDBaseT	

6. Click the **Matrix Mode Static Source** drop-down to select the source that will be assigned as a "static" source. This source will be routed to the output selected in the **Matrix Mode Static Output** drop-down list.

In this example, the source connected to the Display port input, will be output to the HDMI output port. INPUT 2 (DisplayPort) is the static source and OUTPUT 1 (HDMI) is the static output. This particular configuration will allow the USB-C and both HDMI IN ports to be routed to the HDBaseT OUT port, as needed.

Matrix Switch:	Matrix Mode w/static route	~
Matrix Mode Static Output:	HDMI	~
Matrix Mode Static Source:	BYOD	~
	USB-C	
	Display Port	
	HDMI 3	
	HDMI 4	
	BYOD	

7. Matrix with static route configuration is complete.





# Auto-Switching

The AT-UHD-SW-510W 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.



**IMPORTANT:** The auto-switching feature is only available when the **Switching Mode** is set to **Matrix mode with static route** or **Disabled**. Refer to **Switching Modes** (page 27) for more information.

# Enabling / Disabling Auto Switching

By default, auto-switching is enabled on the AT-UHD-SW-510W, allowing the unit to automatically switch between inputs when sources are connected or disconnected. Auto-switching is always enabled when set to **Matrix mode** with static route and cannot be disabled.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Display** in the side menu bar.
- Under the Control window group, the AutoSwitch checkbox will be checked, indicating that auto-switching is enabled. If the AutoSwitch checkbox is grayed out, verify that the Switching Mode is set to either Disabled or Matrix mode with static route.
- 4. Click the **AutoSwitch** checkbox to remove the check mark to disable auto-switching. Note that if the previously active input is no longer available that it will fallback to any available input.



**NOTE:** The AT-UHD-SW-510W retains the currently selected input, even after the unit is powered-off then powered-on. The system should re-evaluate the auto switching logic after power on and select an input.

Contractions State General System State General System State Seath Screen State Sta	Central  If acts softhing is not analytic, and power confit functionality will not unou.  Antibiotic  Statements  Inter Carl Down Timer (15-300 rec)  Statements  Inter Carl Down Timer (15-300 rec)  Control Timer Statements  Co	Information Heiper Control Mote: 	*- System uit Tum Dispr On based on video source consection to my off the video party and Tum Dispr of Video of the video of Video off the for order sparal & disorder (Video off Control If auto switchin auto power on/off fur	g is not enabled, actionality will not work
	Endes Monstan Jacob Rev Pala Dunter Science Dunter		AutoSwitch Display Control Method Lamp Cool Down Timer (15-300 sec)	Usabled V 15 seconds V
			Display Warm-Up Timer (15-300 sec)	15 seconds 🔹 🗸
			Auto Power Off Timer	5 minute 🔹
			Control Type	CEC 🗸
			Volume / Mute	Audio Out 🗸

5. Auto switching configuration is complete.



# The Splash Screen

The splash screen is displayed after the AT-UHD-SW-510W has completed the boot-up process, and indicates that the unit is ready for use. To view the splash screen, connect an HDMI cable to **OUTPUT 1** (HDMI) or **OUTPUT 2** (HDBaseT) on the AT-UHD-SW-510W to the HDMI input of a display.

# **Customizing Text**

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Splash Screen in the side menu bar.

SATLONA	Splash Screen		
SW510W-B369	Show MetaData:	Splash Screen	
General System Status <b>Splash Screen</b> Routing Display EDID	Tife         Walcome           Sustaic         [mmm]           Columit Tite         Ta height your presentation           Columit FIL         Consect wind	Туре:	Default 🗸
<ul> <li>Administration Logout</li> </ul>	Consect the HOMU (USE). Consect the Void (USE) Consect to the end of the prior end of the prior end of the end	Show MetaData:	
	Louin A2 Control for (name) on your APPlay. Google Cast (Google Home App). or Miracest derice.	Show Panel:	
	Foote: Halp Videos - http://ationa.com/casting	Y Offset:	0
	Heb: Lopand	Title:	Welcome
	Images Spisch Soreen 1 Upload	Subtitle:	{name}
	Splach Screen 2 Uplicad	Column Title:	To begin your presentation:
	Splash Soreen 3	Column #1:	Connect wired:
The <b>Sp</b>	image indefent second M201408     i		Connect the HDMI, USB-C, or DisplayPort cable at the table to your device.
group h Note th	nas several settings. at the Column #1 and	Show Second Column	
Colum	#2 fields provide	Column #2:	Connect wirelessly
default connec	instructions on how to t to the AT-UHD-SW-	Column #2.	Connect wirelessly.
510W.			Search for {name} on your AirPlay.
As with window	any fields in this group, they can		Google Cast (Google Home App), or Miracast device.
be cust	comized to provide		
the AT-	UHD-SW-510W in a	Footer:	Help Videos - http://atlona.com/casting
specific	environment.		
The nex illustrat of these	kt page provides an ion which identifies each e fields, as they appear	Help: L	<u>egend</u>
		Save	

3.





4. Refer to the previous page and make any desired changes to each field. Note that the "tag" {name} is present in the **Subtitle** field, by default. The value of {name} is a system value cannot be changed, as it identifies this specific device: MS52W. However, the {name} tag can be removed from the **Subtitle** field and replaced with other text.

Other tags, and a description o	of their values, are	listed in the table below.
---------------------------------	----------------------	----------------------------

Тад	Description
{name}	This is the system name, and is usually the conference room/classroom name.
{ssid}	The name of the device when the AT-UHD-SW-510W is configured as an Access Point. Refer to Access Point Mode (page 43) for more information.
{eth0}	The IP address of the AT-UHD-SW-510W when connected to a network using an Ethernet cable.
{wlan0}	The IP address of the AT-UHD-SW-510W when using a wireless connection.
{version}	Displays the Master Firmware version.
{password}	Displays the Access Point password, when the AT-UHD-SW-510W is configured as an Access Point. If configured as an Access Point, this tag will be populated with the selected password. The password can be either static or dynamic. When set to dynamic, this field will be constantly updated. Refer to Access Point Mode (page 43) for more information.
{status}	The status of the AT-UHD-SW-510W.
{image:status}	The graphical status of the device (when using HTML splash screens).
{url:status}	The URL of image status (when using HTML splash screens).



5. Click the **Legend** link to display a list of these tags at any time.

Splash Scree	en			
Туре:		Default 🗸		
Show MetaData:				
Show Panel:				
Y Offset:		0		
	Title:	Welcome		
	Subtitle:	{name}		
Column Title:		To begin your presentation:		
	Column #1:	Connect wired:		
Г		Connect the HDML USB-C		
	{name}:	Copy "Name" from General tab		
	{ssid}:	Derived Name from General tab		
Show Se	{eth0}:	IP address from Wired Ethernet		
	{wlan0}:	IP address from Wireless Connection		
	{version}:	Master Firmware Version		
	{password}:	WiFi Access Point Mode Password		
	{status}:	Textual status of the device		
	{image:statu	us): Graphical status of the device (For use in HTML)		
	{url:status}:	URL of Image status (For use in HTML)		
L.				
	Help: <u>Le</u>	20110		
Save				

- The Y Offset field is used to adjust the horizontal centering of the panel. The default value is 0 (center). Positive values will shift the panel to the right. Negative values will shift the panel to the left. Adjusting the Y Offset does not move the background image of the splash screen.
- 7. Click the **Save** button to commit all changes within the **Splash Screen** window group.



## **Displaying Metadata**

Click the **Show MetaData** checkbox to display metadata information on the splash screen. Metadata includes the name of the unit, model, current date, wired IP address, current firmware version, and some image references used by the AT-UHD-SW-510W.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Splash Screen** in the side menu bar, then click the **Show MetaData** checkbox. A check mark in this box indicates that the feature is enabled, and metadata will be displayed on top of the splash screen.

Splash Screen	
Туре:	Default 🗸
Show MetaData:	<b>G</b>
Show Panel:	
Y Offset:	0
Title:	Welcome
Subtitle:	{name}
Column Title:	To begin your presentation:
Column #1:	Connect wired:
	Connect the HDMI, USB-C, or DisplayPort cable at the table to your device.
Show Second Column:	
Column #2:	Connect wirelessly:
	0

An example of metadata is shown below.

```
Name: SW510W-B369
Model: SW510W
Date: 11/19/2020
Wired IP: 10.0.1.83
Version: 2.9.0
LED - Grey: /opt/tomcat/webapps/ROOT/static/images/icons/led_grey_small.png
LED - Green: /opt/tomcat/webapps/ROOT/static/images/icons/led_green_small.png
LED - Green: <image src="{url:led_gree}">
LED - Green: /opt/tomcat/webapps/ROOT/static/images/icons/led_green_small.png
LED - Green: <image src="{url:led_green}">
LED - Green: <image src="{url:led_green}">
LED - Red: /opt/tomcat/webapps/ROOT/static/images/icons/led_red_small.png
LED - Red: <image src="{url:led_red}">
LED - Red: <image src="{url:led_red}">
LED - Status: {image:led_green}
LED - Status: {url:led_green}
Status: Ready
```

3. Click the **Save** button, at the bottom of the **Splash Screen** window group, to commit changes. To hide the metadata, uncheck the **Show MetaData** checkbox and click the **Save** button.



## **Displaying the Wireless Password**

This feature is applicable only when the AT-UHD-SW-510W is configured as an *access point*. The wireless password can be displayed as part of any text field on the splash screen, by inserting the {password} tag as part of a text string. For example:

"To begin your presentation, connect using the SSID and enter the following password: {password}."

Note that when the AT-UHD-SW-510W is configured as an *access point*, the wireless password will automatically be displayed by default, at the bottom of the screen, as shown below. In addition to the password, the WiFi Name field represents the SSID of the AT-UHD-SW-510W and is used to identify the unit as an available access point. Refer to Wireless Configuration (page 43) for information on setting up a WiFi connection.




## Cycling Background Images

Background image cycling can prevent image persistence, which is the equivalent of image burn-in on CRT and plasma computer monitors.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Splash Screen** in the side menu bar.
- 3. Under the Images window group, click the **Enable Image Rotation** checkbox.



 Click the Image Rotation Time drop-down list to select the desired time interval. Range: 1 - 10 minutes. The default image cycling time is 5 minutes (300 seconds). To disable image cycling, uncheck the Enable Image Rotation checkbox.



## **Uploading Custom Images**

Custom images may be uploaded and used instead of the factory splash screens.



**IMPORTANT:** Custom images should not exceed 1920 x 1080. All common image types, such as JPG, BMP, PNG, TIF, GIF, are supported.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Splash Screen** in the side menu bar.
- 3. Under the Images window group, click the Upload button next to the image to be changed.

Images	
Splash Screen 1	Upload
Splash Screen 2	Upload
Splash Screen 3	Upload
	<ul> <li>Image should not exceed 1920x1080.</li> <li>Image should have 16:9 ratio.</li> <li>Image should use sRGB color profile.</li> </ul>
Reset Images to default:	Reset
Enable Image Rotation:	
Image Rotation Time:	300 🗸

- 4. Select the new image file and click the **Open** button on the dialog box. If viewing the currently active splash screen, the splash screen will be replaced with the uploaded image.
- 5. Repeat steps 3 and 4, as desired.



### HTML Splash Screens

HTML-based splash screens can be used to create content-rich splash screens. This section provides details on creating and uploading an HTML splash screen. Familiarity with HTML is assumed. The AT-UHD-SW-510W comes with a default HTML splash screen, which can be downloaded from within the web server.

The following table provides a list of supported / unsupported features:

Feature	Supported	Not Supported
HTML5	•	
Relative / absolute references	•	
Dynamic images (e.g. animated GIF files)*		•
CSS	•	
PHP, JavaScript, ASP (client/server-side processing)		•

\* If a dynamic image is used, only the first frame of the image will be displayed on the splash screen.

### Downloading the default splash screen

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Splash Screen** in the side menu bar.
- 3. Under the Splash Screen window group, click the Type drop-down list and select HTML.

Splash Screen		
Туре:	Default	~
Show MetaData: Show Panel:	Default HTML	
Y Offset:	0	_

4. Click the **Download** button and save the html.zip file to a desired location on the computer.

Splash Screen			
Type:	HTML	~	]
Reset HTML:	Reset		
Download HTML	Download		
Upload HTML	Upload		
	* When upload	ing a n	ew HTML splash screen,
	contents need	to be a	rchived with .zip extension

Once the file has downloaded, extract the contents to the desired folder. The included HTML file can be modified, as required, or a different HTML file may be used. The next page provides instructions and guidelines on creating a custom HTML file.



#### Using a custom HTML file

Create the HTML file, along with any links to the desired images. The AT-UHD-SW-510W also comes with a
default HTML file (refer to the previous page), and can be used as a starting point when creating a custom HTML
splash screen. The example below, is a partial listing of the HTML code within the default HTML file.



**NOTE:** When creating an HTML splash screen, it must be designed to fit a 1920x1080p display.

```
<HTML>
        <head>
                <style>
                        .container {
                            position: relative;
                        }
                        .bottomleft {
                           position: absolute;
                            bottom: 64px;
                            left: 64px;
                            font-size: 25px;
                        }
                        .bottomright {
                            position: absolute;
                            bottom: 64px;
                            right: 64px;
                            font-size: 25px;
                        }
                        .icon {
                            width: auto;
                            height: 35px;
                            vertical-align:middle;
                        }
                        .OutlineText {
                            font: Tahoma, Geneva, sans-serif;
                            font-size: 64px;
                            color: white;
                            text-shadow:
                            . . .
                            . . .
                        }
                . . .
       . . .
</HTML>
```

- 2. Save the file as index.html\_template. Do not add a file extension.
- 3. Combine the index.html\_template file along with all required external images/files into a .zip file called html.zip.



**IMPORTANT:** The index.html\_template file *must* reside in the root directory, within the html. zip file. Other files (.css, images, etc.) can be placed in folders, if desired, or can also be left in the root directory.



The file structure for the default html.zip file, located on the AT-UHD-SW-510W, is as follows:

airplay.png
cast.png
chrome.png
devices.png
index.html\_template
wifi.png
windows.png

- 4. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 5. Click **Splash Screen** in the side menu bar.
- 6. Under the Splash Screen window group, click the Type drop-down list and select HTML.

Splash Screen		
Туре:	Default	~
Show MetaData:	Default HTML	_Ռ
Show Panel:	<	
Y Offset:	0	

7. Click the Upload button.

Splash Screen		
Type:	HTML	~
Reset HTML:	Reset	
Download HTML	Download	
Upload HTML	Uploar	
	* When uproadi	ng a new HTML splash screen,
	contents need t	to be archived with .zip extension

- 8. Select the html.zip file, then click **Open**, to upload the file to the AT-UHD-SW-510W.
- 9. Click the Save button, at the bottom of the Splash Screen window group, to commit changes.



### Resetting the HTML Splash Screen



**IMPORTANT:** The Reset (Reset HTML) button will delete any loaded HTML data and replace it with the default HTML page that comes with the AT-UHD-SW-510W.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Splash Screen in the side menu bar.
- 3. Click the **Type** drop-down list and select **HTML**.
- 4. Under the **Splash Screen** window group, click the **Reset** button.

Splash Screen	
Туре:	HTML 🗸
Reset HTML:	Reset
Download HTML	Download
Upload HTML	Upload
	* When uploading a new HTML splash screen,
	contents need to be archived with .zip extension



# Wireless Configuration

The AT-UHD-SW-510W features a wireless gateway, providing convenient Wi-Fi<sup>®</sup> connectivity to iOS, Android, Mac, Chromebook, or Windows-based devices. In addition, the AT-UHD-SW-510W can be configured as a wireless access point (AP). The addition of a built-in firewall provides filtering of outbound traffic from WAP to Ethernet.

### Access Point Mode

When configured as an Access Point (AP), wireless devices can be connected to the AT-UHD-SW-510W.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Administration > Networking in the side menu bar.
- 3. Under the WiFi window group, click the Mode drop-down list and select Access Point.

<b>A</b>	General						
a Busser company	Hostname:	sw510w-b369					
SM210M-B369	Ethernet	00.1-00.20.12.00					
Info	Mode	DHC9					
System	ID Address						
Status Salash Samas	IP Address.	10.1.0.140					
Routing	Catavasia	200.200.204.0					
Display	Gateway.	10.1.1.254					
<ul> <li>Administration</li> </ul>	UNS Server #1:						
Teinet	UNS Server #2.						
Networking	802.1x Security Enable:	<b>U</b>					
Debug	WIFI						
Advanced	MAC Address:	74.da:38.ef.d9.58					
Pre-Release	Mode:	Disabled					
Event Viewer		Access Point					
Logout	Save	Connect to WiFi					
	Save Changes:	Save					
	Revert Changes:	Revert					
	Factory Reset Settings:	Reset					
			WiFi				
					74 4 20 6 10 50		
				MAC Address:	/ 4:da:38:et:d9:58		
				Madai	Disabled		
				wode.	Disabled		
					6		
					Access Doint		
					Access Point	0	
						m	
			Carro		Connect to WiFi	0	
			Save				
					Disabled		
					Disabled		
				Sava Changes:	2010		

- 4. The name of the wireless network will appear in the **SSID** field. This name is identical to the text in the **Derived** field, under the **General page (page 77)**. To change the SSID, go to the **General** page and modify the **Name** field.
- 5. Enter the password in the **Password** field. The password will be required by clients connecting to the AT-UHD-SW-510W. The default password is 12345678. Make sure to clear this value and provide a secure password.



**IMPORTANT:** If no password is supplied in Access Point mode, then any client will be able to connect to the AT-UHD-SW-510W without credentials. Make sure this is the desired operation before continuing. Also, if the Acces Point is not secured, then the Miracast Infrastructure will not function, as it requires encryption of traffic.

WiFi		
	MAC Address:	74:da:38:ef:d9:58
	Mode:	Access Point 🗸
	SSID:	sw510w-b369
	Password:	•••••



 The Show AP Credentials checkbox is enabled by default. Enabling this feature will display the WiFi Name and WiFi Password fields to be displayed on the splash screen, as shown below. Uncheck this box to hide the name and password.

Show AP Credentials:	
No Password in AP Mode:	
Hide Password on OSD:	
Rotate Password:	



- 7. Check the No Password in AP Mode checkbox if no password credential is desired.
- 8. Click the Hide Password on OSD checkbox to prevent the WiFi Password field from being displayed.
- 9. Click the Rotate WiFi Password checkbox to allow the AT-UHD-SW-510W to generate a new random password.

This feature can be used to provide an extra level of security. Dynamically rotating the password decreases the risk that unauthorized clients will not have access to the AT-UHD-SW-510W, if the current password is "leaked" or observed on the splash screen, outside of a meeting space or other environment. It should be noted that the system will not change the password, once content is being presented, and will wait until the presentation is finished to begin password rotation. Check the **Hide Rotated Password** checkbox to hide rotated passwords.

10. Click the **Password Rotation Interval** drop-down list to select the rotation time interval for new password generation. The default setting is 1 hour.

Rotate Password:	
Hide Rotated Password:	
Password Rotation Interval:	1 hour 🗸



- 11. Enter the wireless channel number in the **Channel** field. Channels 1 through 11 are 2.5 GHz channels. Channels 36 and above are 5 GHz channels. Contact the network administrator if necessary.
- 12. Click the **Access Point Power Level** drop-down list to select the desired power level of the WiFi USB antenna. Available values are integers 0 through 13. Lower values will reduce transmission power of the USB WiFi antenna, thus limiting the range of the Access Point on the AT-UHD-SW-510W.
- 13. If a different set of DNS servers are desired, click the **DNS Mode** drop-down list and select the desired mode:

Feature	Description
Use default DNS Servers	Uses the default DNS provided by the DHCP server. This is the default setting.
Inherit from wired Network	Uses the same DNS provided by the wireless network.
Static	Enter the primary and secondary DNS addresses in the <b>DNS Server #1</b> and <b>DNS Server #2</b> fields, respectively.

- 14. The Firewall Mode drop-down list allows filtering of outgoing network traffic, from/to a network that is connected to the **LAN** port on the AT-UHD-SW-510W. Refer to Firewall Mode (page 46) for more information.
- 15. Click the **802.1x Security Enable** checkbox to enable 802.1x. Refer to **802.1X Authentication (page 51)** for more information.

Channel:	48	~
Access Point Power Level:	0	~
DNS Mode:	Use default DNS Servers	~
DNS Server #1:	8.8.8.8	
DNS Server #2:	8.8.4.4	
Firewall Mode:	None	~
802.1x Security Enable:		

16. To commit changes, click the Save button, located under the Save window group.

Save	
Save Changes:	Save
Revert Changes:	Revert
Factory Reset Settings:	Reset



### **Firewall Mode**

This feature allows filtering of outgoing network traffic, from/to a network that is connected to the LAN port on the AT-UHD-SW-510W. The AT-UHD-SW-510W provides the following firewall modes: **Block Private Network**, **Block Internet**, **Block All**, and **None**. If this feature is not desired, then the following steps can be skipped. The firewall can be configured or disabled at any time. The default setting is **None**.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Administration > Networking in the side menu bar.
- 3. Under the WiFi window group, click the Mode drop-down list and select Access Point.
- 4. Click Firewall Mode drop-down list and select the desired option.

Firewall Mode:	None	$\sim$
802.1x Security Enable:	None Block Private Network	
Save	Block Internet	
	DIOCK All	
Save Changes:	Save	
Revert Changes:	Revert	
Factory Reset Settings:	Reset	

Setting	Description
None (default)	Select this option to disable the firewall on the AT-UHD-SW-510W and allow all outgoing network traffic.
Block Private Network	This option will globally block all private IP address ranges and traffic to the internal network on the LAN, except Internet access.
Block Internet	Allows wireless access to the AT-UHD-SW-510W and communication with the internal network, but prevents Internet access (Google, YouTube, etc).
Block All	All outbound network traffic is blocked. Wireless traffic to the AT-UHD-SW- 510W is permitted, but no wireless data will be sent to the Ethernet port of the AT-UHD-SW-510W.

5. Click the **Save** button, under the **Save** window group, to commit changes.

Save	
Save Changes:	Save
Revert Changes:	Revert
Factory Reset Settings:	Reset



### Connect to WiFi Mode

Use this mode to connect the AT-UHD-SW-510W to another wireless network.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Administration** > **Networking** in the side menu bar.
- 3. Under the WiFi window group, click the Mode drop-down list and select Connect to WiFi.

	General Hostname:	sw510w-b369		
SW510W-B369	Ethernet MAC Address:	00:1e:06:36:b3:69		
General System	Mode:	DHCP v		
Status Splash Screen	IP Address: Network Mask	255 255 254 0		
Routing Display	Gateway:	10.1.1.254		
EDID Administration	DNS Server #1:			
Telnet Moderator	DNS Server #2:			
Networking Debug	dea. to cecanly chapter			
User Accounts Advanced	WiFi	74.4.29.440.59		
Pre-Release Audio	Mode:	Disabled V		
Event Viewer Logout	-	Access Point		
	Save Changes:	Disabled Save		
	Revert Changes:	Revert		
	Factory Reset Settings:	Reset		
			1.0.0	
			WIFI	
			MAC Address	74-do-38-of-d0-58
			MAC Address.	74.ua.30.el.u9.30
			Mode	Disabled
			initial.	Disabled
				Access Point
			Save	
				Disabled
				Disabled
			Save Changes:	Save
			Devert Observer	
			Revert Changes:	Revert
			Fostory Depart Oattinger	Dent
			Factory Reset Settings.	Reset

- 4. Click the Preferred Gateway drop-down list and select the desired gateway. When set to Connect to WiFi mode, the AT-UHD-SW-510W can only be accessed though the same network, over Ethernet or WiFi, not both. For example, if Ethernet is selected, then the AT-UHD-SW-510W can only be accessed from the same network over Ethernet. However, it should be noted that casting is supported on *both* interfaces, simultaneously.
- 5. Click the **Pick** button to display a listing of available WiFi networks.

WiFi			
MAC Ad	ddress:	74:da:38:ef:d9:58	
	Mode:	Connect to WiFi	~
Preferred Ga	teway:	Ethernet	~
	SSID:		Pick
Pas	sword:	•••••	2
:	Status:	Unknown	



6. Click the desired WiFi network from the list and click the **OK** button to accept the selection or click **Cancel** to return to the **WiFi** window group.

Pick a Wifi Network				
Pick a Wifi Network to Connect				
SSID: SSID				
SSID	Str 👻			
NETGEAR91	4	-		
NachoWiFi	4			
HP-Print-OfficeJet Pro 8600	3			
MK-WAP	3	н.		
HuddleRm	3			
ConferenceRm-Main	3			
HuddleRm-5Ghz	3			
Lobby-Display	3			
		Ŧ		
OK Cancel				

7. Enter the password for the wireless network in the **Password** field.

WiFi		
MAC Address:	74:da:38:ef:d9:58	
Mode:	Connect to WiFi	~
Preferred Gateway:	Ethernet	~
SSID:	HuddleRm	Pick
Password:	•••••	
Status:	Unknown	

8. Click the **Save** button near the bottom of the screen to commit changes.

Save	
Save Changes:	Save
Revert Changes:	Revert
Factory Reset Settings:	Reset
Factory Reset Settings.	Reset



9. The system will prompt to be rebooted, as shown below. Click **Yes** to perform a reboot. To reboot at a later time, click the **Later** button.

Reboot		
Network mod	lifications	
require a reboot.		
Do you want to reboot now?		
Yes	Later	

Once the connection has been established, the Status field will display Connected, as shown below.

WiFi			
	MAC Address:	74:da:38:ef:d9:58	
	Mode:	Connect to WiFi	~
	Preferred Gateway:	Ethernet	~
	SSID:	HuddleRm	Pick
	Password:	•••••	
	Status:	Connected	

The following table provides a description of status messages.

State	Description
Connected	The AT-UHD-SW-510W is connected to the wireless network.
Not Connected	Unsuccessful connection. Check to make sure the password was entered correctly. This state will also occur if the wireless network, to which the AT-UHD-SW-510W is connected, is taken offline.
Unknown	The network state is unknown. This message is displayed if the AT-UHD-SW-510W has not been configured to connect with a wireless network.



# Changing the SSID

By default, the SSID of the AT-UHD-SW-510W is set to the following identifier: SW510W-{id}. The first five digits are the last five characters of the product SKU. The {id} tag holds the last four digits of the MAC address. This identifier is held in the **Name** field, under the **General** tab. The AT-UHD-SW-510W copies the **Name** field to the **Derived** field, converting the characters to lowercase. The **Derived** field then becomes the SSID.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click General in the side menu bar.
- 3. Under the General window group, change the Name field to the desired name.
- 4. Click the Save button to commit changes.

SW510W-B369	Seneral         SV/5101/L(d)           Display Name.         SV/5101/E309           Derived:         SV/5101/E309		
General System Status Splash Screen Routing	Save Revet	General	
EDID Administration Logout		Name:	SW510W-{id}
		Display Name:	SW510W-B369
		Derived:	sw510w-b369
		Save	



# 802.1X Authentication

802.1X is a server-based port authentication protocol which restricts unauthorized (rogue) clients from connecting to a Local Area Network through a public port. In its simplest form, 802.1X usually involves three parties: supplicant (client device), authenticator (Ethernet switch), and an authentication server. Before the device is permitted on the network, port communication is restricted to Extensible Authentication Protocol over LAN (EAPOL) traffic. If the device passes the authentication process, then the authentication server notifies the switch, allowing the client to access the LAN. A full explanation of the 802.1X protocol is beyond the scope of this manual. However, the illustration below shows the basic architecture.



## **Ethernet Connections**

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Administration > Networking in the side menu bar.

3.	Make sure the Ethernet
	connection is working
	properly.

 Under the Ethernet window group, click the 802.1x Security Enable check box.

	Ethernet	
	MAC Address:	00:1e:06:36:b3:69
ndow	Mode:	DHCP 🗸
box.	IP Address:	10.1.0.146
	Network Mask:	255.255.254.0
	Gateway:	10.1.1.254
	DNS Server #1:	
	DNS Server #2:	
	802.1x Security Enable:	Im



- 5. Enter the identity of the authentication server in the **Identity** field. EAP uses this field to identify the correct authentication server which will process the credentials. For example, if foo@authserv.com is entered, then this identifies AUTHSERV as the RADIUS (authentication) server.
- 6. Enter the password in the **Password** field.
- 7. Click the **Upload** button to select and upload the certificate.

SW510W-B369	General Hostname: Ethernet	sw510w-b369			
Info General System Status Splash Screen Routing Display	Mode: IP Address: Network Mask: Gateway:	DHCP         V           10.1.0.146         255 255 254 0           10.1.1 254         10.1.1 254		Ethernet	
EDID - Administration Telnet Moderator Networking Debug	DNS Server #1: DNS Server #2: 802.1x Security Enable: Identity:	×	1	MAC Address:	00:1e:06:36:b3:69
User Accounts Advanced Pre-Release Audio Event Viewer Logout	Password: Upload Certificate: Delete Certificate:	Upload Delete Please upload p12 or pfx file format	$\backslash$	Mode:	DHCP
	WIFI MAC Address: Mode	vith no private key password		IP Address:	10.1.0.146
	SSID: Password: Show AP Credentials: No Recovered in AP Mode	sw510=-b369		Network Mask:	255.255.254.0
	Hide Password on OSD: Rotate Password: Channel:	46 V		Gateway:	10.1.1.254
	DNS Mode: DNS Server #1: DNS Server #2:	0 Vise default DNS Servers Vise default DNS Servers Vise default ADNS	\	DNS Server #1:	
	Firewall Mode: 802.1x Security Enable: Save	None v		DNS Server #2:	
	Revert Changes: Factory Reset Settings:	Revert Reset		802.1x Security Enable:	
				Identity:	
				Password:	•••••
				Upload Certificate:	Upload
				Delete Certificate:	Delete
					Please upload p12 or pfx file format
					with no private key password

8. Under the Save window group, click the **Save** button to commit changes.

Save	
Save Changes:	Save
Revert Changes:	Revert
Factory Reset Settings:	Reset



### WiFi Connections

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Administration** > **Networking** in the side menu bar.
- 3. Under the WiFi window group, click the 802.1x Security Enable check box.
- 4. Enter the server, port number, and the secret, in the **Radius Server**, **Radius Port**, and **Radius Secret** fields, respectively.

	Hostname:	sw510w-b369			
\$W510W-B369	Ethernet MAC Address:	00:1e:06:36:b3:69			
General System Status	Mode: IP Address:	DHCP ~	\A/;E;		
Splash Screen Routing	Network Mask	255.255.254.0	VVIEI		
EDID Administration	DNS Server #1:			74 1 20 6 10 50	
Teinet Moderator	DNS Server #2: 802.1x Security Enable:	×	MAC Address:	/4:da:38:ef:d9:58	
Networking Debug User Accounts	Identity:				5
Advanced Pre-Release	Upload Certificate:	Upload	Mode:	Access Point	1.1
Audio Event Viewer	Delete Certificate:	Delete Please upload p12 or pfx file format			
Logoui		with no private key password	0010-		1
	WiFi MAC Address:	74:da:38:et d9:58	5510.	SW510W-D369	1.1
	Mode:	Access Point v			5
	SSID: Password:	sw610w-b369	Password:	•••••	
	Show AP Credentials	2			1
	Hide Password on OSD:		Chaw AD Cradaptials:		
	Rotate Password: Channel:	48 ~	Show AP Credentials.		
	Access Point Power Level	0 ~			
	DNS Mode: DNS Server #1:	8.8.8.8	No Password in AP Mode:		
	DNS Server #2	8.8.4.4		<u> </u>	
	802.1x Security Enable:		Hide Password on OSD:		
	Save		The Tassword on COD.		
	Save Changes: Revert Changes	Save			
	Factory Reset Settings:	Reset	Rotate Password:		
					5
			Channel:	48	
			Access Daint Dower Lovel:	0	1
			Access Point Power Level.	0	
					5
			DNS Mode:	Use default DNS Servers	
			DNS Server #1:	0000	1
			DNO Derver #1.	0.0.0.0	
					ñ I
			DNS Server #2:	8.8.4.4	
					2
			Firewall Mode:	Nono	
			r nowan wode.	None	
			802.1x Security Enable:	Im	
				<u> </u>	

5. Click the **Save** button, under the **Save** window group, to commit changes.



# Casting

The AT-UHD-SW-510W interface provides the ability to transmit ("cast") the screen of any iOS<sup>®</sup>, Android<sup>™</sup>, macOS<sup>®</sup>, Chromebook, or Windows device over Wi-Fi, without having to install a separate application or driver. The AT-UHD-SW-510W can serve as an integrated, dual-band access point, or be networked into an existing Wi-Fi installation.



**IMPORTANT:** Several apps have been known to trigger HDCP, even if the content is unprotected. In these cases, the AT-UHD-SW-510W will be unable to decode and present the content.

### iOS Devices

AirPlay is only supported on iOS 10 or higher.

- 1. Select the **BYOD** input on the AT-UHD-SW-510W.
- 2. On the iOS device, go to Settings > Wi-Fi.
- 3. Select the network to which the AT-UHD-SW-510W is connected or join its access point. The example below shows the AT-UHD-SW-510W in **Connect to WiFi** mode. Refer to **Connect to WiFi** Mode (page 47) for more information.

••000 V	/erizon 🗢 3:35 PM	<b>1 0</b> 🕴 96% <b></b>
	Settings	
JS	John Smith Apple ID, iCloud, iTunes &	App Store
≻	Airplane Mode	$\bigcirc$
<b>?</b>	Wi-Fi	AT >
*	Bluetooth	On >
( <sup>(</sup> M)	Cellular	>
୭	Personal Hotspot	Off >
	Notifications	>
	Control Center	>
C	Do Not Disturb	>

•००० Verizon 🗢	3:35 PM	🕇 🗑 🕴 96% 💼
Settings	Wi-Fi	
Wi-Fi		
<ul> <li>AT</li> </ul>		<b>₽ ≎ (i</b> )
CHOOSE A NETW	ORK	
510 Infoc	omm (AC only)	<b>₽</b> ╤ (j)
510 Infoc	omm 2.4G	a 🗢 i
ATL 840	Demo	a 🗢 i
ATL 840	Demo 5g	a 🗢 i
ClickShar	re-1872075827	a 🗢 i
DIRECT-9	9j-FireTV_80cb	a 🗟 (i)
DIRECT-a	at-FireTV_cb53	a 🗟 (i)
DVT-04		<b>₽ \$ ()</b>
iz-odroid		₽ ≈ (ì)



5. Tap the **AirPlay Mirroring** option to display a list of available AirPlay devices.

Note that if the iOS device is running 11.0.3 or later, the AirPlay option has been changed to Screen Mirroring.Tap the SSID from the list of devices.







## iOS 11.0.3 or later





- 6. Tap the SSID from the list of devices.
- 7. Close the **Control Center** by either swiping down or pressing the **Home** button.
- 8. The image of the iOS device will now appear on the connected display.

Note that depending upon the application, the image on the screen can be rotated. For example, when using the camera app, if the iOS device is rotated 90 degrees, then the image on the screen will also be rotate 90 degrees.

9. Close the **Control Center** by either swiping down or pressing the **Home** button.



### **OS X Devices**

AirPlay<sup>®</sup> is only supported on Mountain Lion 10.8 or later. To determine if AirPlay is supported on the system being used, click **System Preferences** > **Displays**. If the "Show mirroring options in the menu bar when available" checkbox is not displayed, then AirPlay is not supported.

1. Click the Wi-Fi icon in the menu bar and select the network to which the AT-UHD-SW-510W is connected.



2. Enter the password for the Wi-Fi network, then click the Join button.





AirPlay can be used to either mirror or extend the Mac display.

• Mirroring

Click the AirPlay icon in the menu bar and select the desired display to be mirrored.

• Extending

Click the AirPlay icon and select "Use As Separate Display" from the list of displays, to extend the Desktop to another display.



• Turning Off AirPlay

Click the AirPlay icon and select "Turn AirPlay Off".



### **Microsoft Miracast**

Miracast is a wireless protocol that allows content to be transmitted from laptops and other mobile devices to displays. The latest release of Microsoft Windows<sup>®</sup> 10 supports Miracast.

Displaying Miracast devices can be done in more than one way. Three methods are discussed below. The first method is the most direct method.

#### Method 1

- 1. Press 🕂 + K keys, simultaneously.
- 2. The list of available devices will be displayed on the right-hand side of the screen. Select the AT-UHD-SW-510W hostname from the list.

#### Method 2

- 1. Right-click on the Windows Desktop and select **Display Settings** from the pop-up menu.
- 2. In the right-hand column, scroll down, then click **Connect to a wireless display**.

#### **Google Chrome**

- 1. Make sure both the AT-UHD-SW-510W and the "casting" computer are on the same network.
- 2. Launch Google Chrome.
- 3. Click the *icon*, in the upper right corner of the Chrome browser.
- 4. Click the **Cast...** option from the drop-down menu.
- 5. Select the hostname of the AT-UHD-SW-510W from the Cast to menu.

New tab			Ctrl+T
New window	New window		
New incogn	ito windov	v Ctrl+S	hift+N
History			•
Downloads			Ctrl+J
Bookmarks			•
Zoom	- 10	- %00	- 20
Print			Ctrl+P
Cast			
Find			Ctrl+F
More tools			•
Edit	Cut	Сору	Paste





Chrome will immediately begin casting to the AT-UHD-SW-510W.

- 6. Adjust the volume (if audio is present), by clicking and dragging the slider control. In addition, either **Remote** screen or **Both screens** can be selected from the **Show fullscreen videos on** drop-down list.
- 7. Click the x in the upper-right corner of the Casting tab to dismiss this dialog.

← ms52w-b500		ě
Casting tab (http://10 MS52W	.0.1.103)	
<b>●</b>		•
Show fullscreen videos on	Remote screen 💌	
		STOP

When Chrome is casting, the 🔝 icon will appear in the upper-right portion of the menu bar. Clicking this icon will display the Casting tab dialog.

In addition, a blue rectangle will be displayed in the browser tab, which is sharing ("casting") the content to the AT-UHD-SW-510W. If the browser tab is closed, then the casting process will be terminated.

8. Click **STOP** to discontinue casting to the AT-UHD-SW-510W.



# Audio Management

By default, the AT-UHD-SW-510W will use the digital audio (if present) from the **USB-C IN**, **DisplayPort**, or **HDMI** ports and output the audio over the **HDMI OUT**, **HDBaseT OUT**, and **AUDIO OUT** ports. However, an external analog source can also be used. When configured, the analog audio source will replace the digital audio on the selected input, and will be heard on the **HDMI OUT**, **HDBaseT OUT**, and **AUDIO OUT** ports.



## Using External Audio Sources

- 1. Connect an unbalanced audio source to the **AUDIO IN** port on the rear panel. This port accepts a 3.5 mm ministereo cable.
- 2. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 3. Click **Administration** > **Audio** in the side menu bar.
- 4. Click the drop-down list of the desired input and select the audio input. In the example below, **Analog** is being selected from the **HDMI 4** drop-down list. This will replace the digital audio heard on the output (if any), with the analog audio source.

To use the digital audio from the HDMI source, select **Digital** from the **HDMI 4** drop-down list.

Audio		
Master Volume:		
Audio Input		
Audio Input		
HDMI 3:	Digital 🗸	
HDMI 4:	Digital 🗸 🗸	
USB-C:	Digital	
DP:	Analog	1

## **Controlling Audio Output Volume**

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Administration** > **Audio** in the side menu bar.
- 3. Under the **Audio** window group, click and drag the volume slider to the desired output level. This applies to both digital and analog (external) audio sources.



# AirPlay Bluetooth Discovery

The AT-UHD-SW-510W supports Bluetooth®-assisted device discovery. An *optional* Bluetooth adapter is required, but not included. Atlona recommends Plugable and Kinivo Bluetooth 4.0 adapters.



**IMPORTANT:** Bluetooth discovery is applicable only to Apple devices and is used for device discovery on networks, such as corporate networks, where mDNS is not permitted. Bluetooth discovery behaves as a type of "beacon", indicating the available AT-UHD-SW-510W units within the local vicinity of an AirPlay device.

- 1. Connect the Bluetooth adapter to the AUX port on the AT-UHD-SW-510W.
- 2. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 3. Click Administration > Advanced in the side menu bar.
- 4. Under the **BYOD** window group, click the **AirPlay Bluetooth** checkbox. If this checkbox has a check mark in it, then the feature is enabled. Also, make sure that the **AirPlay Enable** checkbox is checked.

SW10W B369 Info General System Status Control Statu	Telent Exato Totest ♥ Telen Antentcoton Easter Whatting Whattic Sare Whattic BYOD Mas BYOD Tree Affrag Massed Post Affrag Massed Post A			
Pre-Rolease Audio Event Viewer Logout	Altray makak  Google Cast Enable:		BYOD	
	Front Panel Arrow Buttons: Volume Vol		Max BYOD Time:	1 hour 🗸
	Lock Paver Butter:	$\backslash$	Kick User:	Kick
	Ibio UDI HD   Endin REST Afri Aufwendstation: Endin COST Afri Aufwendstation: Materianistica Alev Materianistica Output Falses: EVCO V	$\backslash$	AirPlay Bluetooth	<b>M</b>
			AirPlay Bluetooth - Discovery:	Ethernet 🗸
			AirPlay/Miracast P2P PIN:	
			AirPlay/Miracast P2P PIN expiration:	Update PIN every new conn 🗸
			AirPlay Enable:	
			Google Cast Enable:	
			Miracast Enable:	
			Casting Device Name Display:	AirPlay Enable
			Depart Frames Fraklas	0

5. Go to the AirPlay device and activate Screen Mirroring. The AT-UHD-SW-510W will now be displayed in the Screen Mirroring device list.



**NOTE:** If the AT-UHD-SW-510W is beyond the range defined by the Bluetooth specification, then the device will not be displayed in the Screen Mirroring list. When pairing, make sure to be as close to the AT-UHD-SW-510W as possible.



## AirPlay / Miracast P2P PIN Codes

The AT-UHD-SW-510W can be configured to prompt for a PIN code, before a BYOD device connects with either AirPlay or Miracast P2P. When the this option is enabled, a PIN code will be displayed on the screen when an AirPlay or Miracast device attempts to connect to the AT-UHD-SW-510W. Refer to the IT Deployment Guide for definitions of Miracast P2P (Peer-to-Peer) and Miracast over Infrastructure.



**NOTE:** The PIN code will randomly change every five minutes, by default. This value can be set from 10 seconds to five hours. This provides a level of security, preventing unauthorized users from accessing the AT-UHD-SW-510W. Android<sup>™</sup> devices do not support PIN code security.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Administration > Advanced in the side menu bar.
- 3. Click the AirPlay Enable and Miracast Enable checkboxes, as required by the casting device.
- 4. Under the **BYOD** window group, click the **Airplay/Miracast P2P PIN** checkbox. If this checkbox has a check mark in it, then the feature is enabled.

SW510W.B369 Info General System	Telest Teled-Autoentation: Enable VMentation: White: Sare White:				
Status Splash Screen Routing Display EDID - Administration Toinet Notworking Debug User Accounts	BYOD Max BYOD Time: 1 hour v Kock Use: Kock		~	BYOD	
	Array Guidedh - Dioorey Ethamat v AirPlay Miteoch - Dioorey Ethamat v AirPlay Miteoch P2P PN v AirPlay Miteoch P2P PN very new conv		Max BYOD Time:	1 hour 🗸	
Pre-Release Audio Event Viewer Logout	AirPay Enable: 🗭 Osogie Cast Enable: 🎯 Marcast Enable: 🗭 Casting Device Name Display:		Kick User:	Kick	
	Repeat Frames Enable:	$\rightarrow$	AirPlay Bluetooth		
	Arrow Buttors: Volume Lock Power Buttor: Security Battal Mode: UTTD and MTTDP		AirPlay Bluetooth - Discovery:	Ethernet 🗸	
	Enable CORS:		AirPlay/Miracast P2P PIN:	<b>M</b>	
	Firmware MCU Firmware Uplead	~	AirPlay/Miracast P2P PIN expiration:	opdate PIN every new conn 🗸	
	Abov Maintenance Window:		AirPlay Enable:	Miracast Enable	
			Google Cast Enable:		
			Miracast Enable:		
		AirPlay Ena	able Jasting Device Name Display:		

5. The following message box will be displayed. Click the **Ok** button.







- 5. Connect the AirPlay/Miracast P2P device to the AT-UHD-SW-510W. Refer to Wireless Configuration (page 43) for more information.
- Begin casting to the AT-UHD-SW-510W. When the device attempts to connect to the AT-UHD-SW-510W, a PIN code will be displayed on the screen that is connected to the device. Refer to the illustration on the next page, if necessary.



6. Enter the four-digit PIN code in the dialog box on the device and press OK. The PIN code will be displayed only for about 10 seconds. If the PIN code is not entered within the time interval, then the PIN code will be removed from the screen. The example below, shows an AirPlay device prompting for the PIN code. Clicking Cancel in the AirPlay Code dialog box will reconnect the AirPlay device to the AT-UHD-SW-510W and generate a new PIN code.

AirF Enter the o	Play Code	de for	
bode	510-e/53"		4
Cancel	(	ОК	5
			1
Apple TV			1
1	2 <sub>АВС</sub>	3	F



## Changing the PIN Timeout

By default, the AT-UHD-SW-510W will automatically generate a new PIN code for each new WiFi connection that is attempted. However, this value can also be set to regenerate every 15 minutes or 60 minutes.



**NOTE:** The AT-UHD-SW-510W requires a minimum of 20 seconds to elapse before another PIN code is generated. For example, if another connection is made, within 20 seconds after the nth connection, then the same PIN code will be used to connect to the system.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Administration > Advanced in the side menu bar.
- 3. Under the **BYOD** window group, click the **Airplay/Miracast P2P PIN** checkbox. If this checkbox has a check mark in it, then the feature is enabled.
- 4. Click the AirPlay/Miracast P2P Pin expiration drop-down list and select the desired time interval.

System Status Splash Screen	Telest Telesk Almenicators Enable Withding Withdid, Save Withdid: Save Withdid									
Roufing Display EDio Administration Tehnet Medvestor Networking Debug User Accounts <b>Advanced</b> Pre-Rolesse Audio Event Viewer Logout	Mee RYOD Time Show V Foot Use: Kok APPly Bustesh - Decevery Ensets V APPly Bustesh - Decevery Ensets V APPly Manuscri PPP N: very new connection V	AirP	BYOD May BYOD Time:	1 hour						
	Arify fails Google Pit way have concellent Google Pit way fail way fail Google Pit way		AirF	Play/Miracast P2P PIN Kick User:	Kick					
	Front Panel Arrow Buttons: Volume Volume Volume		AirPlay Bluetooth							
	Security Partal Mode: HTTP and HTTPS	$\backslash$	AirPlay Bluetooth - Discovery:	Ethernet 🗸						
	Enable COR:		AirPlay/Miracast P2P PIN:							
	Adow Maintenance								AirPlay/Miracast P2P PIN expiration:	Jate PIN every new connection 🐱
	Output Falback BYOD v		AirPlay Enable:	Update PIN every new connection						
			Google Cast Enable:	Update PIN every 15 min Update PIN every 60 min						
			Miracast Enable:							
			Casting Device Name Display:							
			Depest Frames Enable:							



# **Moderator Mode**

Moderator mode provides a layer of control when multiple clients are casting through the AT-UHD-SW-510W. The "moderator" can either *allow* or *kick* (remove) a client from casting content. Up to four users can be hosted in the **Users** table. However, only one device may cast at a time.



**NOTE:** In order to monitor which devices are allowed to display content, Moderator mode must be enabled before a device begins casting. If a device is already casting, without Moderator mode enabled, then enabling this feature will have no effect.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Set the WiFi mode to either Access Point or Connect to WiFi. Refer to Wireless Configuration (page 43) for more information.
- 3. Click Administration > Moderator in the side menu bar.
- 4. Under the **Moderator** window group, click the **Enable** checkbox. If this checkbox has a check mark in it, then the feature is enabled.

In order to monitor which devices are allowed to display content, this box must be checked before a device begins casting. If a device is already casting, then enabling this feature will have no effect.



5. Connect the BYOD devices to the AT-UHD-SW-510W. Once connected, the device can begin casting. Refer to Casting (page 54) for more information on how to connect devices for casting.

Once the devices have started casting, they will be displayed in the **Users** table, as shown in the example on the next page. Devices will only appear in this table when they are casting. When devices are displayed in this table, an **Allow** and **Kick** button will also be available for each device.



More than the second		
Name	Preview	Allow Kick
Andrew's iPhone	Commission Formationers In works (F) In work (F) In work (F) In work (F) In work (F)	Allow Kick
Brenda's iPhone	Constanting Consta	Allow Kick

6. Click the **Allow** button to permit a device to begin casting to the display device.

Once the selected device is allowed to cast to the connected display device, the **Allow** button will be disabled. In the example below, *Brenda's iPhone* is now the active casting device and shown on the display device.

7. Click the **Allow** button, next to another device, to make that device the active casting device. Clicking the **Allow** button, allows switching between multiple casting devices that are connected to the AT-UHD-SW-510W. Note that it may take a few moments before the content from the casting device appears on the screen.





- Name
   Preview
   Allow
   Kick

   Andrew's iPhone
   Allow
   Allow
   Kick

   Active casting device
   Allow
   Kick

   Brenda's iPhone
   Allow
   Kick
- 8. Click the **Kick** button to explicitly disconnect a casting device from the AT-UHD-SW-510W. Any casting device can be "kicked", even if it is the active casting device.

Once a device has been "kicked", it will no longer appear in the **Users** table. In the example below, the device *Andrew's iPhone* has been removed from the **Users** table.

9. To reconnect a device that has been "kicked", select the hostname of the AT-UHD-SW-510W from the cast menu of the BYOD device. After a successful connection, the device will appear in the **Users** table.

Name	Preview	Allow Kick	
Brenda's iPhone	Constanting Const	Allow Kick	



# **Display Control Methods**

The AT-UHD-SW-510W provides various methods for display control. The following section describes and provides instructions for each method. By default, the AT-UHD-SW-510W uses CEC commands to control the display.

### Active Video Presence

This method will instruct the AT-UHD-SW-510W to toggle power on the display, based on the absence/presence of either a video signal on any of the physical inputs or a casting device. The **Auto Power Off Timer** interval must expire before the display is turned off. **AutoSwitch** must also be enabled for this method to work.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Display** in the side menu bar.
- 3. Under the **Control** window group, make sure that the **AutoSwitch** checkbox is checked. This feature must be enabled.
- 4. Click the Display Control Method drop-down list and select Active Video Presence.





5. Click the **Auto Power Off Timer** drop-down list and select the desired time interval. This is the amount of time that must elapse, before the display is turned off.

Control		
If auto switching is not enabled, auto power on/off functionality will not work		
AutoSwitch	<b>v</b>	
Display Control Method	Active Video Presence 🗸 🗸	
Lamp Cool Down Timer (15-300 sec)	15 seconds 🔹 🗸	
Display Warm-Up Timer (15-300 sec)	15 seconds 🔹 🗸	
Auto Power Off Timer	5 minute 🗸 🗸	
Control Type	2 minute	
Volume / Mute	3 minute 4 minute	
	5 minute	
CEC Commands	10 minute	
HDBaseT: Or	20 minute	
HDMI: Or	25 minute 30 minute 35 minute	

6. Setup is complete.



### Active Video Presence with Occupancy Sensor

This method is similar to the **Active Video Presence** mode, except that an occupancy sensor can also be used to provide hybrid operation. If using this mode, an occupancy sensor should be connected to the **TRIGGER I/O** port on the AT-UHD-SW-510W. Refer to Trigger I/O (page 13) for wiring information.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Display** in the side menu bar.
- 3. Under the **Control** window group, make sure that the **AutoSwitch** checkbox is checked. This feature must be enabled.
- 4. Click the **Display Control Method** drop-down list and select **Active Video Presence w/Occupancy Sensor**.



5. The **Trigger I/O** window group will be displayed, along with two checkboxes: **Enable Trigger On** and **Enable Trigger Off**.

Check the **Enable Trigger On** checkbox to enable a *power-on* state when the trigger voltage is pulled from low to high. Check the **Enable Trigger Off** checkbox to enable a *power-off* state when the trigger voltage is pulled from low to high. Either or both checkboxes can be enabled. When enabled, all other display power options are overridden.



6. Setup is complete.



### **Occupancy Sensor**

This method uses an occupancy sensor to control the display. **AutoSwitch** does not need to be enabled for this feature to work.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Display** in the side menu bar.
- 3. Click the **Display Control Method** drop-down list and select **Occupancy Sensor**.

SW10W-B369 Info General System Status Parking Display EDO Administration Logout	Centrel If and solithing bort railed, and prove crist functionally will not work Autobath Display Centrel Minor Display Centrel Minor Display Years (by Ther (15.3) circ), And New Of There Display Years (by Ther (15.3) circ), And New Of There Display Years (by Ther (15.3) circ), And New Of There Display Years (by Ther (15.3) circ), And New Of There Display Years (by Ther (15.3) circ), Cent There Display There Display There Display There Display Years (by There) Display Years (by There) Display Years (by There) Display Years (by There) Display Cent There Display There Dis	Information     Deping Control Mode:     Accord Mode		
	HDMI: On Off	Control		Info
	Enable Momentary Relay  Relay Pulse Duration 1 Seconds	If auto switchin	g is not enabled,	Dis
		auto power on/off fun	ctionality will not work	
		AutoSwitch		
		Display Control Method	Disabled 🗸 🗸	
		Lamp Cool Down Timer (15-300 sec)	Active Video Presence	-
		Display Warm-Up Timer (15-300 sec)	Active Video Presence w/Occupancy Occupancy Sensor	Sensor
		Auto Power Off Timer	Day and Time	1
		Control Type	Disabled	
		Volume / Mute	Audio Out 🗸	

4. The **Trigger I/O** window group will be displayed, along with two checkboxes: **Enable Trigger On** and **Enable Trigger Off**.

Check the **Enable Trigger On** checkbox to enable a *power-on* state when the trigger voltage is pulled from low to high. Check the **Enable Trigger Off** checkbox to enable a *power-off* state when the trigger voltage is pulled from low to high. Either or both checkboxes can be enabled. When enabled, all other display power options are overridden.

Trigger I/O	
Enable Trigger On Enable Trigger Off	

5. Setup is complete.



## Day and Time

This method allows manual setup of day and time to determine when the display device will be power-on and powered-off. **AutoSwitch** does not need to be enabled for this feature to work.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Display** in the side menu bar.
- 3. Click the Display Control Method drop-down list and select Day and Time.

	Control If auto switching is not enabled,	Information Display Control Mode:		
SW510W-B369	auto power on/off functionality will not work	Active Video Presence - System will Turn Display On based on video	Active Video Presence – System III Turo Dipley Ob based on video     Active video Presence – System III Turo Dipley Ob based on video     Active video Presence – System	
Info	AutoSwitch 🕑	connecton time after source connection to any of the video rights or whereas costing. The space multi-im Display of Based on the Auto		
General System	Lamp Cool Down Timer (15-300 sec) Active Video Presence	Power Of Timere explanation into active signal is detected (AutoSwitch mutube examiliarie)		
Status Splash Screen	Display Warm-Up Timer (15-300 sec) Active Video Presence w/O Occupancy Sensor	Seence "Exert association and API (Diseley Minimal Sart) will only work under this output.		
Routing Display	Auto Power Off Timer Access Point	Occupanty Stasser - System will Tim Dikipity ADDI gon     cocupanty defaction, assuing secondary defaction assuing assuin		
Administration	Volume / Mute Audio Cut	Long Video Preserve WCcapancy Sensor – System Will fram Display Control Long may be Video Yessens and		
Logout		Occupancy sensor could be used an another than out of the sense of the Day and Time – System will Turn Display On/Off backet on the		
	CEC Commands HDBaseT: On Off	daytime selection • Access Point - System will Turn Disclar On Of # user ware to		
	HDMI: On Off	Control		Info
	Relay	e e i i i e i		
	Enable Momentary Relay  Relay Pulse Duration 1 Seconds	If auto switching	g is not enabled.	Dis
		auto power on/off fun	ictionality will not work	
			_	
		AutoSwitch	✓	
		Disalary Control Mathed		
		Display Control Method	Disabled	
		Lamp Cool Down Timor (15, 200 coo)	Active Video Presence	
		Lamp Cool Down Timer (15-300 sec)	Active video Presence	
			Active Video Presence w/Occupancy	Sensor
		Display Warm-Lin Timer (15-300 sec)	relive video r reserve woodedpuney	Consor
		Display Walli-Op Tiller (15-500 Sec)	Occupancy Sensor	
		Auto Power Off Timer	Day and Time	
			Assess Deint	
			Access Point	
		Control Type	Disabled	
		oonnor type	Disabled	
		Volume / Mute	Audio Out 🗸 🗸	

- 4. The **Time Display Control** window group will be displayed
- Click the Start Time drop-down lists to select the time when the display should be powered-on.
- Click the End Time drop-down lists to select the display poweroff time.
- 7. Click the **Timezone** drop-down list to select the correct time zone.
- Click the desired checkboxes to select which days to apply the schedule.
- 9. Setup is complete.

	Time Display Control	
ר	Start Time:	9 🗸 00 🗸
	End Time:	17 🗸 00 🖌
	Timezone	America/Los_Angeles (UTC-08:00)
-	Mon	
	Tue	
	Wed	
	Thu	✓
)	Fri	✓
	Sat	
	Sun	



## Access Point

This method uses the presence or absence of a wireless connection to determine the power state of the system. In order for this feature to work, the AT-UHD-SW-510W must be set as an Access Point. Refer to Access Point Mode (page 43) for more information.

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click **Display** in the side menu bar.
- 3. Click the Display Control Method drop-down list and select Access Point.

SW310W B369 Info General Status Splash Screen Roding Diepbay EDD - Gandatasien Logiou	Central  If and switching is not analise, and power offit functionality will not work  Automatic  Datage Central Mannel  Datage Central Mannel  Central (15.300 cc)  Automatic  Central (15.300 cc)  Central (15.300 cc)	Internation           Diploy Control Mole:           Image: Second		
	Relay	Control		Info
	Enter New Control IS Second:  If auto switching is not enabled,		g is not enabled,	Dis
		auto power on/off fun AutoSwitch	Ctionality will not work	
		Display Control Method	Disabled 🗸	
		Lamp Cool Down Timer (15-300 sec)	Active Video Presence	
		Display Warm-Up Timer (15-300 sec)	Active Video Presence w/Occupancy Occupancy Sensor	Sensor
		Auto Power Off Timer	Day and Time	
		Control Type	Access Point Disabled	
		Volume / Mute	Audio Out 🗸	

4. Setup is complete.


## Changing the Password

- 1. Login to the web server. Refer to Logging in to the Web Server (page 22) for more information.
- 2. Click Administration > User Accounts in the side menu bar.
- 3. Under the **User Accounts** window group, click the **Change** button.

Sw510W B369 Info General System Rating Display EDD - Administration Totat	User Accounts Users Name admin	Lat Logn Persent 11/22/2020 5 55 PM Change			
Moderator Nehnoxiking Debug <b>User Accounts</b> Advinsed Pre-Release Audio Event Viswer Logout			User Accounts		
			Name	Last Login	Password
			admin	11/23/2020 5:55 PM	Change

- 4. The **Change Password: admin** dialog box will be displayed. Enter the new password in the **Password** field. Make sure to delete all the asterisks (masks) in this field before entering the new password.
- 5. To confirm the password, enter the same password in the **Repeat Password** field. Make sure to delete all the asterisks (masks) in this field before entering the new password.
- 6. Click the **Save** button to commit changes.

Change Password: admin				
Change the password for: admin				
Password:	••••••			
Repeat Password:				
Save Cancel				



## Web Server

The AT-UHD-SW-510W includes a built-in web server. Atlona recommends that the web server be used to set up the AT-UHD-SW-510W, as it provides intuitive management of all features. Refer to Logging in to the Web Server (page 22) for more information.

## Login Register page

This page is displayed when the AT-UHD-SW-510W web server is launched for the first time.

REAL AND	Please Register a User Name and Password				
	Please Register a User Name and Password				
	User				
	Password				
	Confirm				
	Register				

### User

Enter the desired username in this field.

## Password

Enter the desired password in this field.

### Confirm

Re-enter the desired password in this field.

## Register

Click this button to register the username and password with the AT-UHD-SW-510W.



## Login page

This page is displayed when the IP address of the AT-UHD-SW-510W is entered in the address bar of a web browser.

User   Password	SW310W.8369	Please Login Uur Pescoor Goge Secon Login	
Login Secure Login		User       Password         Password       Secure Login	

## User

Enter the username in this field.

## Password

Enter the password in this field.

### Login

Click this button to login.

## Secure Login

Click this button to login, if a secure connection is being used.



## Info page

After logging in, the Info page will be displayed. The **Info** page provides basic information about the receiver, including the model name, software version, input video timing, and the device being using as the transmitter.



## Info

## **Model Name**

The model SKU of this product.

### UTC Date / Time

The current time and date, in Universal Coordinated Time (UTC).

### Master Version

The version of firmware.

### **Firmware Version**

The version of firmware that the AT-UHD-SW-510W is running. Always make sure to check the AT-UHD-SW-510W product page, on the Atlona web site, for the latest version of firmware.

### **HDBaseT Version**

The HDBaseT version of firmware that the AT-UHD-SW-510W is running.



**NOTE:** When the local time has not been set, the warning message (shown above) will be displayed in the **Info** window group. The local time must be set before maintenance mode can be enabled. Refer to Setting the System Date and Time (page 24) for more information on setting the local time.



Contractions Contractions Contractions Contractions Status	General Name SW510V/dd Disaty tume SW510V/8399 Denvel sw510v/8309 Save Revet		
		General	
		Name:	SW510W-{id}
		Display Name:	SW510W-B369
		Derived:	sw510w-b369
		Save Revert	

## General page

## General

### Name

This is the hostname of the unit. Enter the desired name of the AT-UHD-SW-510W in this text field. Include the {id} tag to use the last four digits of the hardware MAC address. Hostnames can contain alphabetic and numeric characters.



**NOTE:** The hardware MAC address differs from the MAC address of the unit, which is found on an adhesive label applied to the bottom of the unit.

### **Display Name**

The name based on the information provided in the **Name** field. This name is used by the AT-UHD-SW-510W to identify it within the OSD.

#### Derived

This field will automatically be populated by the AT-UHD-SW-510W, based on the information provided in the **Name** field. This field provides a "computer-friendly" name used by the SSID. If special characters and/or spaces are included in the **Name** field, then these are removed when populating this field.

#### Save

Click this button to accept all changes.

#### Revert

Click this button to abort changes and reset the previous text in the Name field.



SW510W-B369	System Deales Name SWS15W.0369 Petetat Restat Bucdoon Skodoom	
Info General System Status Splash Screen Routing DE DID DE DID Logout	Factory Next     Resit       Time     System Educy Time:     Say New 23 2020, 10.44 (JTC)       - System Educy Time:     Say New 23 2020, 10.44 (JTC)       - Find the current time New 25     None Time:       - With Street Council Co	System       Display Name:     SW510W-B369       Restart:     Restart       Shutdown:     Shutdown
	Please dn nit attempt to downgrade Master or NOU itmoare.  Configuration Downlast Upted  Documentation Use Manuel Downlast IT Depryment Quark AP Documentation Possible	Time System Date / Time: Set Nov 23 2020 18:44 [UTC]
		System time must be set as UTC. Find the current time here. Local Date / Time: Set Nov 23 2020, 10:44 [-08:00]
Svetor		NTP Server: pool.ntp.org

## System page

## System

### **Display name**

This field serves as the SSID, when connecting wirelessly to the AT-UHD-SW-510W. This name can be changed in the **Name** field of the **General** tab. Refer to General page (page 77) for more information.

### Restart

Click this button to reboot the AT-UHD-SW-510W.

#### Shutdown

Click this button to shut down the AT-UHD-SW-510W. This should always be performed before disconnecting power from the unit.

#### **Factory Reset**

Click the **Reset** button to reset the AT-UHD-SW-510W to factory-default settings. Resetting to factory-default setting may take up to five minutes to complete. Refer to **Resetting to Factory-Default Settings (page 20)** for more information.

## Time

**Set** (System Date / Time) Click this button to set the month, day, and time (in UTC).

## Set (Local Date / Time)

Click this button to set the local date and time using the NTP server specified in the NTP Server field.

## **NTP Server**

Enter the desired NTP server in this field.



	System Display Name:	SW510W-B369			
SW510W-B369	Restart.	Restart			
Info	Factory Reset:	Reset			
SH910W 8369 Info General Shink Splash Scen Roding CB0 EN0 - Admistration Logout	Firmware Firmware Configuration Firmware Configuration Configuration Update Upd	result     See Not22 20:     Studeom     Reset      Set Nov 23 20:     System we     Find the cur     Find the cur     Set Nov 23 20:     ToU rby 23 20:     ToU rby 23 00:     ToU rby 23 00      AT-UHD-SV-510W     Zoo     AT-UHD-SW-510W     Domhoad     Upleed      Domhoad     Upleed      Deveload      Deveload	20, 10.44 [UTC] must be set as UTC. with time (acc. 20, 10.44 [-00.00] doi:10.10000 doi:10.1000 doi:10.1000 doi:10.1000 doi:10.1000 doi:10.1000 doi:10.10000 doi:10.1000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.10000 doi:10.100000 doi:10.100000 doi:10.10000000000000000000000000000000000	Firmware Model Name: Master Version: Firmware Version:	AT-UHD-SW-510W 2.9.0 1.1.34
	API Documentation:	Download		Firmware Check	Check
				Update Firmware:	Upload
					Please do not attempt to downgrade     Master or MCU firmware.

## Firmware

## Model Name

The SKU of the product: AT-UHD-SW-510W.

### **Master Version**

The master version of firmware. Always make sure to check the AT-UHD-SW-510W product page, on the Atlona web site, for the latest version of firmware.

#### Download

Click this link to download the latest firmware. The most recent firmware version is listed.

#### **Firmware Version**

The version of (MCU) firmware that the AT-UHD-SW-510W is running. Always make sure to check the AT-UHD-SW-510W product page, on the Atlona web site, for the latest version of firmware.

#### **Firmware Check**

Click the **Check** button to check for the latest version of firmware. Each time the unit is rebooted, this feature is performed, automatically. The AT-UHD-SW-510W must be connected to the Internet to use this feature.

### **Update Firmware**

Click the **Upload** button to upload the firmware file to the AT-UHD-SW-510W. Refer to **Updating the Firmware (page 110)** for more information.





## Configuration

## Download

Click this button to download the current AT-UHD-SW-510W configuration to a .zip file. The default filename is config.zip. Within the config.zip is the configuration.zip file. Note that the information within the configuration.zip file cannot be extracted as it is only readable by the AT-UHD-SW-510W.

### Upload

Click this button to upload the configuration file to the AT-UHD-SW-510W. Both the **Download** and **Upload** button are useful to save and load different configurations and/or to provide a backup, in the unlikely event of a system failure.

## **Documentation**

### **User Manual**

Click the **Download** link to view the latest version of the User Manual.

### **IT Deployment Guide**

Click the **Download** link to view the IT Deployment Guide.

## **API Documentation**

Click the **Download** link to view the latest API documentation.



	Status Moder Name: AFLUHD-SW-519W UTC Data: Them: 2015-62117-2259 UTC Matter Versen: 2.9.2		
Info General System Splash Screen Routing Display	MCU Finnues Vanzen, 11.35 GPU: CPU uns d 1%, Menory, Total Man, 1117 MB, Availadain Men, 595 MB, Percentage uns d: 27, % Organ Marco, Deglocate Active Source: BTOD Straum Time: Solida Forsan A	Status	
<ul> <li>Administration Logout</li> </ul>	Dospity Control Mode: DISABLED Display State: Display ON HOM Output: SAMSUNG	Model Name:	AT-UHD-SW-510W
	Hobes T Version 7: 0.08 Will Mode: Access Point AP Intro Channel 48 - Power Level: 0	UTC Date / Time:	2021-05-21 17:22:50 UTC
	Vini III(): PA001 152 - 100-31 * Mats. 255 255 255 - 0 - 548+wy; 50 / 154 * Mats. Ethermet Info II: PAddr: 101.01.045 - Mask: 255 255 254.0 - Gateway: 10.1.1254 Bluetont status: Disabled	Master Version:	2.9.2
	PIN Code: Disabled Casting Service: Airplay GoogleCast Miracast Systog Server: Disabled	MCU Firmware Version:	1.1.36
		CPU:	CPU used: 8 %
		Memory:	Total Mem: 1717 MB, Available Mem: 995 MB, Percentage used: 42 %
		Output Mode:	Duplicate
		Active Source:	BYOD
		Stream Type:	Splash screen
		Display Control Mode:	DISABLED
		Display State:	Display ON
		HDMI Output:	SAMSUNG
		HDBaseT Output:	No Active Display
		HDBaseT Version:	7.0.08
		Wifi Mode:	Access Point
		AP Info:	Channel 48 - Power Level: 0
		Wifi Info:	IP Addr: 192.168.43.1 - Mask:
		Ethorn et lafe	255.255.255.0 - Gateway: null
		Ethernet Info	Gateway: 10.1.1.254
		Bluetooth status:	Disabled
		PIN Code:	Disabled
		Casting Services:	Airplay GoogleCast Miracast
		Syslog Server:	Disabled

## Status page

### **Status**

This page provides a information about the current state of the AT-UHD-SW-510W, such as IP information, memory usage, casting devices, active sources, date/time, and various other settings.

.



## Splash Screen page

This page provides control over the appearance of the splash screen. Refer to The Splash Screen (page 32) for more information on using each of the settings under the Splash Screen and Images window groups.

Splash Screen		
SW010W 8369         Show MetaData:           Info         Show Parati           General         V Ottat           Tetre         Videorem	Splash Screen	
System State	Туре:	Default
denice. Shew Second Column Column #2: Connect virtulessly:	Show MetaData:	
Search for (name) en you Ar Pelay. Groupde Cast (Google Home App), or Minacast device.	Show Panel:	
Help: Legend	Y Offset:	0
Save	Title:	Welcome
Splauh Screen 1 Upload	Subtitle:	{name}
Bplanh Screen 2	Column Title:	To begin your presentation:
Splanh Screen 3 Upload	Column #1:	Connect wired:
Hnage block for a screed 1550 r 100.     Hnage block for a 150 r 46.     Image Block for the 1 r 46.     Image Block for the 1 r 46.     Image Block for the 1 r 46.		Connect the HDMI, USB-C, or DisplayPort cable at the table to your device.
Splash Screen		
<b>Type</b> Click this drop-down list to select the type of splash screen to use.	Show Second Column: Column #2:	Connect wirelessly:
Show Meta Data Click this check box to display metadata on the splash screen.		Search for {name} on your AirPlay, Google Cast (Google Home App), or Miracast device.
Show Panel Check this box to display the panel, containing connection instructions and other information.	Footer:	Help Videos - http://atlona.com/casting
<b>Y Offset</b> Sets the up-and-down position of the overlay panel, on the screen. A value of 0 vertically positions the panel in the center of the screen. Positive values move the panel down. Negative values move the panel up.	Help: L	<u>egend</u>

## Title

The title of the overlay panel. The default value is "Welcome".

## Subtitle

The text directly under the text in the **Title** field. The default text contains the name of the unit.



## **Column Title**

The title text for the centered text, above both instruction columns. The default text is "To begin your presentation".

## Column #1

The text positioned in the left column. The default text is "Connect wired: Connect the HDMI, USB-C, or DisplayPort cable at the table to your device".

## Show Second Column

Check this box to display the second (right-hand) column. Uncheck this box to hide the text in this column.

## Column #2

The text positioned in the righthand column. The default text is "Connect wirelessly: Connect the Wi-Fi network", entercode, and enable AirPlay, Google Cast<sup>™</sup>, or Miracast".

### Footer

By default, this field provides a link to how casting works on different operating systems (www.atlona. com/casting). This field can be modified to contain a different URL, if desired. This link will be displayed on the default splash screen.

## Legend

Click this link to display a list of available tags that can be used in any of the text fields. Refer to the illustration above.

### Save

Click this button to commit all changes on this page.

Splash Screen	
Туре:	Default 🗸
Show MetaData:	
Show Panel:	
Y Offset:	0
Title:	Welcome
Subtitle:	{name}
Column Title:	To begin your presentation:
Column #1:	Connect wired:
	Connect the HDMI, USB-C, or DisplayPort cable at the table to your device.
Show Second Column:	
Column #2:	Connect wirelessly:
	Search for {name} on your AirPlay, Google Cast (Google Home App), or Miracast device.
Footer:	Help Videos - http://atlona.com/casting
Help: L	<u>egend</u>
Save	



	Splash Screen Type: Default V				
SW510W,B359	Show MetaData:				
Info	Show Panet:  Y Offset: 0				
General System	Title: Welcome				
Status Splash Screen	Subtile: (name)				
Routing Display	Column #1: Connect wired:		Images		
Administration	Connect the HDMI, USB-C,		inages		
Logour	at the table to your device.				
	Show Second Column:			Splash Screen 1	
	Column #2: Connect wirelessly:				() ATLENA
	Search for {name} on your AirPley,				
	or Miracast device.				Upload
	Footer: Help Videos - http://ationa.com/casting				
	Help: Legend				
	Save	/			
	Images	/			
	opresm sötferen 1	/		Splash Screen 2	
	oprior			opidan ocroen z	@ ATLONA
	Skiesh Screen 2				
	Upload				Upland
					Opioad
	Splash Screen 3				
	Upload				
	<ul> <li>Image should not exceed 1920x1080.</li> </ul>				
	Image should have 16.9 ratio.     Image should use sRGB color profile.				
	Reset Images to default. Reset			Onlash Ossan O	
	Enable image Rotation:			Splash Screen 3	
	image Rolation Time: 300 V				A DECEMA
Images					Upload
mayes					
upload	I				
Click th	ese buttons to replace				
oooh fo	otony default image with	~			
eacria	ciory-default image with	d			
custom	image.				
	-				<ul> <li>Image should not exceed 1920x1080.</li> </ul>
Rosat G	Solash Images				Image about the set of C.O. setter
nesel 3					<ul> <li>Image should have 16:9 ratio.</li> </ul>
Click th	e <b>Reset</b> button to set				<ul> <li>Image should use sPCB color profile</li> </ul>
the sole	ash screen images to the				<ul> <li>image should use shot color profile.</li> </ul>
ractory-	default images.				
			Reset	Images to default:	Reset
Enable	Image Rotation				
	is about how to instruct		Ench	o Imago Datation:	
UICK Th	IS CHECK DOX TO INSTRUCT		Enabl	e maye Rotation.	
the AT-I	JHD-SW-510W to cycle				
through	the splash screen		Ima	ge Rotation Time:	300 🗸
	i ille splasti scieett				
images.					
-					

## Image Rotation Time

Click this drop-down list to select the image rotation interval.



## Routing page

This page provides control over the appearance of the splash screen. Refer to The Splash Screen (page 32) for more information on using each of the settings under the **Splash Screen** and **Images** window groups.

Control of the second s	Information           Matrix Switching         Disabled           Matrix Switching         Disabled           Matrix Switching         Disabled	International states wheth their and the value whether whether Input Selection USBC DP HDMI3 HDMI4 BYOD
		Matrix Switching Matrix Switch: Disabled

## **Input Selection**

## USBC, DP, HDMI3, HDMI4, BYOD

Click the desired button to select the active input.

### **Matrix Switching**

## Matrix Switch

Click this drop-down list to select the desired matrix mode. Refer to Switching Modes (page 27) for more information.

Modes	Description
Disabled	Matrix mode is disabled (default setting).
Matrix Mode	Allows the AT-UHD-SW-510W to independently switch between any input and any output.
Matrix Mode w/ Static Route	Use this mode when integrating the AT-UHD-SW-510W with a video conference system.



## Display page

Control of the second s	Control If and service of the servic	Information Display Cartral Mode: - consection from rehits result - non-section from rehits result - non-section from rehits result - "Information Joint Consection - "Information Joint Consect	Wenn with Tim Thighty On based on Adap for active all the Web Web war or man and ADJ Clader Administration and ADJ Control If a auto switchin auto power on/off fur AutoSwitch	g is not enabled, actionality will not work	
			Display Control Method	Disabled	~
			Lamp Cool Down Timer (15-300 sec)	15 seconds	~
			Display Warm-Up Timer (15-300 sec)	15 seconds	~
			Auto Power Off Timer	5 minute	~
			Control Type	CEC	~
			Volume / Mute	Audio Out	~

## Control

### **AutoSwitch**

Click this box to enable or disable auto-switching. When this box is checked, the AT-UHD-SW-510W will automatically switch inputs when the new device is connected. To disable auto-switching, uncheck this box.

## **Display Control Method**

Click this drop-down list to select the method of display control. The following options are available.

Modes	Description
Active Video Presence*	The AT-UHD-SW-510W will power-off the display if no active source is detected on the input. Conversely, the display will power-on when an active source is detected. This applies to either physical source connections or casting. The Auto Power Off Timer must expire before the power-off command is sent.
Active Video Presence w/Occupancy Sensor*	Similar to the Active Video Presence mode, except that an occupancy sensor can also be used with Active Video Presence mode to determine when the power-off or power-on command is sent.
Occupancy Sensor	The AT-UHD-SW-510W will power-on/power-off the display based on the state of the occupancy sensor. The occupancy sensor must be wired to the AT-UHD-SW-510W.
Day and Time	The AT-UHD-SW-510W will power-on/power-off the display based on the assigned schedule.
Access Point	Display will power-on/power-off based on the presence of a connection/ disconnection from the AT-UHD-SW-510W Access Point.
Disabled	No display control

\*AutoSwitch must be enabled to use these control methods.



Contractions Swithwest Swithwest General System Status Seases Reuting Dispose EDID • Administration Logout	Centrol If adds settlebing is not enabled, and power wind Kucchonathy will not work. Addresset Desptor Control Memory Desptor Control Memory Adds Power Of There Control Type	Information Display Control Mode:      4. Active Modes      4. Active      4. Active	System will Tum Digety (on based on Melon concentration to any of the Velon base are main Tum Digety of Neutral on the Anio fire active signal is detected. (AntiSwitch and API (Dister/ Attimut) Set with any Control If auto switchin	g is not enabled,	
	HDM: On Of Relay Exalls Momentary Relay Relay Puice Duration 1 Seconds V	consects cornect from s	auto power on/off fur AutoSwitch	ectionality will not work	
			Display Control Method	Disabled	~
			Lamp Cool Down Timer (15-300 sec)	15 seconds	~
			Display Warm-Up Timer (15-300 sec)	15 seconds	~
			Auto Power Off Timer	5 minute	$\sim$
			Control Type	CEC	~
			Volume / Mute	Audio Out	~

## Lamp cool down timer

Sets the projector lamp cool-down timer, in seconds. This value specifies the time interval that must elapse, after the display control "off" command is sent, before the display "power on" command can be sent. This feature is used to prevent the projector from missing a "power on" command while the lamps are cooling. A minimum of 45 seconds is recommended for projectors. Available values are from 15 to 300 seconds (5 minutes). The default setting is 15 seconds.

### **Display Warm-Up Timer**

Sets the projector lamp warm-up timer, in seconds. During the warm-up interval, the AT-UHD-SW-510W will not start the auto power-off timer. This value specifies the time interval that must elapse, after the display control "on" command is sent, before the display "power off" command can be sent. This feature is used to prevent a "power off" command from being sent while the lamps are warming up. A minimum of 45 seconds is recommended for projectors. Available values are 15 to 300 seconds (5 minutes). The default value is 15 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 5 minutes. Available values are 15 seconds to 8 hours.

### **Control Type**

Sets the control protocol for the connected display. Click this drop-down to select the control type. Available settings are **CEC**, **IP**, and **RS-232**. By default, CEC is selected for control of the display. IP and RS-232 can also be selected. When IP or RS-232 are selected, more fields are available.

### Volume / Mute

This option is only available when Control Type is set to RS-232 or IP.



	Control	Information		
SW510W-B369 Info General System	II addo switching is not enabled, auto power anolf functionality will not work Auto Switch C Display Control Method Disabled V	Active Video Presence –     connection from either so     wireless casting. The syst     Power Off Timer expiration     must be enabled.	CEC Commands	
Status Splash Screen Routing Display EDID Administration	Lamp Cool Usen Him (15-300 eVc) To seconds  Upplay Wam-Up Timer (15-300 evc) To seconds  Upplay Wam-Up Timer (15-300 evc) To seconds  Corol Type CetC  Upplay Upplay Timer  Corol Type CetC  Upplay Timer  CetC  Uppla	<ul> <li>Front panel display butto work under this option.</li> <li>Occupancy Sensor – Se occupancy detection resi Active Video Desence v Display. Our off the a buttoint</li> </ul>	HDBaseT:	On Off
Logout	CEC Commands HD8set: On Off HDM: On Off	Occursincy sensor could b • Pay and Time – System v daylitime selection. • Access Point – System v connect/disconnect from s	HDMI:	On Off
	Relay Enable Momentary Relay Relay Pulse Duration I Seconds			
	Trigger I/O Enable Trigger On Enable Trigger Of		Relay	
		$\setminus$	Enable Momentary Relay	
			Relay Pulse Duration	1 Seconds 🗸
		$\setminus$	Trigger I/O	
			Enable Trigger On	
			Enable Trigger Off	

## **CEC Commands**

Click these button to test CEC functionality over HDMI and HDBaseT. Click the **On** button to send the power-on command to the display device. Click the **Off** button to send the power-off command to the display device.

### Relay

#### **Enable Momentary Relay**

When enabled, the relay is set to momentary. The default setting is disabled (latch). Use a 48 V DC relay with no more than 1 A current draw. This feature is disabled, by default. Refer to Relay (page 13) for wiring information.

#### **Relay Pulse Duration**

Click this drop-down list to select the desired pulse duration for the relay. Some devices may require different time intervals, to recognize a state change. Range: 1 to 10 seconds.

## **Trigger I/O**

This section defines how the **TRIGGER** port will respond to varying voltage levels when, for example, used with an occupancy sensor. Either or both of the following conditions can be enabled or disabled.

#### **Enable Trigger On**

Check this box to power-on the system when the occupancy sensor detects a presence in the room. If the **Enable Trigger Off** is not checked (enabled), hen the system power will remain on when the room is unoccupied.

#### **Enable Trigger Off**

Check this box to power-off the system when the occupancy sensor detects no presence in the room.



	Control	Information			
	If auto switching is not enabled, auto power on/off functionality will not work	Display Control Mode:			
SW510W-B369		<ul> <li>Active Video Presence – System will Turn Display On based on video connection from either source connection to any of the video inputs or</li> </ul>			
Info	AutoSwitch 🕑	wireless casting. The system will Turn Display Off based on the Auto			
General	Display Control Method Disabled	<ul> <li>Power Off Timer expiration if no active signal is detected. (AutoSwitch must be enabled)</li> </ul>			
Status	Lamp Cool Down Timer (15-300 sec) 15 seconds	<ul> <li>Front panel display button and API (Display Minimal Set) will only</li> </ul>			
Splash Screen	Display Warm-Up Timer (15-300 sec) 16 seconds	v work under this option.			
Display	Auto Power Off Timer 5 minute	<ul> <li>Occupancy Sensor – System will rum Display On/Ott upon occupancy detection, assuming occupancy sensor is connected.</li> </ul>			
EDID Administration	Control Type RS-232	Active Video Presence v			
Logout	Volume / Mute Audio Out	Display On/Off in a hybrid     Occupancy sensor could D C 020			
	070.0	Day and Time – System     N 3-232			
	CEC Commands	day/time selection.			
		connect/disconnect from s			
			RS232 Mode	HDBase1 RS232 Only	V
	Relay				
	Enable Momentary Relay		Doud Data	0000	
	Torono Constanti 1 300000		Dauu Rate	9000	×
	R\$-232				
	RS232 Mode HDBaseT RS232 Only	~			
	Baud Rate 9600	v / / / / / / / / / / / / / / / / / / /	Data Bits	8	~
	Data Bits 8		Data Dito	· ·	
	Parity none	×			
	Stop Bit 1	×			
			Parity	none	$\sim$
	RS-232/IP Commands				
	Manufacturer	×			
	Products	~	Stop Dit	4	
	Model	✓	Stop Bit		×
	Display Commands				
	[Please use \x as a delimiter for HEX \	ues]			
	ON Power Onlx0D S	d			
	OFF Power OffodD S	d			
	Volume+ Vol Upix0D S	d			
	Volume- Vol Down/x0D S	d			
	Mute Vol Mute/x0D S	d			
	Save Revent				

## **RS-232**

This section is only available when the **Control Type** is set to **RS-232**.

## RS-232 Mode

Click this drop-down list to select the RS-232 mode.

Setting	Description
HDBaseT RS232 Only	Assigns settings for RS-232 settings over <b>HDBaseT OUT</b> . RS-232 commands will only be transmitted over the <b>HDBaseT OUT</b> port.
Local RS232 Only	Assigns settings for RS-232 port for controlling the display over the local RS-232 port.
Both	Both <b>HDBaseT OUT</b> and the <b>RS-232</b> port are used. Note that when using both ports, the RS-232 settings must be identical.

## Baud Rate, Data Bits, Parity, and Stop Bits

The RS-232 settings for the selected RS-232 mode.

Setting	Description
Baud rate	Sets the baud rate. The following options are available: 9600, 14400, 19200, 38400, 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.



System Status Spata Status Spata Boding Display EDIO	Centrol If note switching in not anabled. Autobuch. Desity Control Minute Desity Control Minute Standa Control Minute Standa Stand	Information Display Control Mode: Active Video Presence – conection from elither source wireless casting The syste Power of Timer expiration must be enabled, " Front cantel display bubble work under this action, Occupancy disterion, asso Active Video Presence J	System will Turn Display Civ based on video to conscion to simy of the video burner or most Turn Display of based on the Arto If m active signal is detected, (AutoSwitch and API Display Minimal Sci util cody and Turn Display CoOM spon ming occupancy sensor is connected.			
Legent	Volume / Mole Audio Out  Volume / Mole Audio Out  VOlumands HOBMAT On Off Relay Exatile Momentary Relay Relay Price Duration I Secondis  IP IP address 10.20 50.55 Purt (245533) 23	Diplay Dolfh a hybrid Dioceany among could a provide the second second second dynamic second from a consect discover them a	IP	IP address Port [0-65535]	10.20.50.58       23	
	R5-232/IP Commands Menicitar V V V V V V V V V V V V V V V V V V V	•	RS-232/IP 0			
	OFF Perver Offs00 Send Volume Vol Devention Send Volume Vol Devention Send Mate Vol Devention Send Save Revert			Products		~
				Model	Display Commands	~
					[Please use \x as a delimiter for H	IEX values]
IP This see				ON	Power On\x0D	Send
the <b>Con</b>	trol Type is set to IP.	wnen		OFF	Power Off\x0D	Send
IP addre	ess a ID address of the di	anlay		Volume+	Vol Up\x0D	Send
device in	n this field.	spiay		Volume-	Vol Down\x0D	Send
Port Enter the	e port number in this	field.		Mute	Vol Mute\x0D Save Revert	Send

## **RS-232/IP Commands**

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

### Manufacturer

Click this drop-down list to select the display manufacturer. If the display device being controlled is not in this list, then the commands can be entered manually.

Acer	Hitachi	Qomo
Barco	Infocus	Samsung
Benq	JVC	Sharp
Canon	LG	Smart
Casio	NEC	Sony
Christie	Optima	Toshiba
Clevertouch	Panasonic	ViewSonic
Digital Projection	Philips	Vivitek
Eiki	Pjlink	
Epson	Planar	



	Control If auto switching is not enabled, auto accuse on/off tenctionality will not work	Information Display Control Mode:			
SW510W-B369 Info General	AutoSwitch 🧭 Displey Control Method Disabled 🗸	<ul> <li>Active Video Presence – connection from either so wireless casting. The syst Power Off Timer expiration</li> </ul>	RS-232/IP Commands		
System Status Splash Screen Routing Display	Lamp Cool Down Timer (15-300 sec)         15 seconds         V           Display Warm-Up Timer (15-300 sec)         15 seconds         V           Auto Power Off Timer         5 minute         V	must be enabled). " <u>Front panel display butto</u> <u>work under this option</u> . • Occupancy Sensor – Sys	Manufacturer		~
EDID Administration Logout	Control Type RS-232 Volume / Mute Audio Out Volume / Mute	Active Video Presence w     Display On/Off in a hybrid     Occupancy sensor could b     Day and Time – System a	Desidente		
	CEC Commands HD8seeT. On Off HDMI: On Off	day/time selection. • Access Point – System v connect/disconnect from s	Products		~
	Relay Enable Momentary Relay		Model		~
	Relay Pulse Duration 1 Seconds V			Display Commands	
	RB321 Mide         HDBaseT RB323 Only         V           Bead Rate         9600         V           DMIs Bits         8         V           Partly         none         V			[Please use \x as a delimiter for h	HEX values]
	Step Bit 1 V RS-232/IP Commands Mandaturer		ON	Power On\x0D	Send
	Products V Model V Display Commands		OFF	Power Off\x0D	Send
	CN         Power Only00         Send           OF         Power Only00         Send           OFF         Power Offx00         Send           Volume+         Vol Uptx00         Send		Volume+	Vol Up\x0D	Send
	Vetume Vol DownkóD Send Nute Vol Mutelu6D Send Silve Revert		Volume-	Vol Down\x0D	Send
			Mute	Vol Mute\x0D	Send
				Save Revert	

## Products

Click this drop-down list to select the product. This drop-down list will be populated, based on the selection made from the **Manufacturer** drop-down list.

### Model

Click this drop-down list to select the model. This drop-down list will be populated based on the selection made in the **Products** drop-down list.

### **Display Commands**

Once a device is selected, the **ON**, **OFF**, **Volume+**, **Volume-**, and **Mute** fields will be populated with the correct information for that device. If a device is not listed, enter the appropriate commands the device in each field. Commands can be either ASCII or hexadecimal. If hexadecimal values are used, then use the /x delimiter at the end of the string. Click the **Send** button to verify that each command works properly. If not, check the values entered for each command.

### Save

Click this button to commit all changes.

### Revert

Click this button to undo all changes.



SW510W-B369	EDID EDID (Extended Display Identifie Output	Output EDID			
General System Status Splash Screen Routing Display EDID Administration Logout	HD8aseT Inputs US8-C DP	DELLP24193           AT-OME-SR21           Selection           ATL 1920x1000P 2CH           ATL 1920x1000P 2CH		EDID	
	HDMI 3 HDMI 4 Save	ATL 1920x1080P 2CH V		EDID (Extended Display Iden	tification Data)
			Output	Output EDID	
		HDMI	DELL P2415Q		
		HDBaseT	AT-OME-SR21		
				Inputs	Selection
				Input	Selection
				USB-C	ATL 1920X1080P 2CH V
				DP	ATL 1920x1080P 2CH 🗸
				HDMI 3	ATL 1920x1080P 2CH 🗸 🗸
				HDMI 4	ATL 1920x1080P 2CH 🗸
				Save	

## EDID

### **EDID (Extended Display Identification Data)**

Displays the EDID assigned that is being used by each output. Press the **Save** button to save the EDID to a file.

## Inputs

The **Input** column displays each of the inputs on the AT-UHD-SW-510W. Click the drop-down list, under the **Selection** column, to select the desired EDID to be used. The table below lists the available EDID presets.

The table below provides a listing of available EDID presets.

EDID listing	
4K60 2CH	1366x768@60 2CH
4K30 2CH	1280x800p60 2CH
4K30 4:4:4 2CH	1280x720p60 2CH
1920x1200p60 2CH	1024x768p60 2CH
1920x1080P 2CH (factory-default)	800x600p60 2CH
1600x900p@60 2CH	

## Save

Click this button to commit changes.

## EDID page



## Administration > Telnet page

The **Telnet** page provides an emulated terminal for entering commands.

0	irying 127.0.0.1
ATLONA.	Connected to 127.0.0.1.
a Heater company	Escape character is '^]'.
SW510W-B369	
Info	* Welcome to the Atlona Telnet Interface *
Cananal	* *
General	8 Tons "sold" he and his ression 8
System	Type date to end the session
Status	" "?" for a list of commands "
Solash Screen	
Destine	***************************************
Routing	
Display	
EDID	
<ul> <li>Administration</li> </ul>	
Tabaat	
Tenner	
Moderator	
Networking	
Debug	
Liser Accounts	
Adversed	
Auvanced	
Pre-Kelease	
Audio	
Event Viewer	
Logout	
cogoor	



## Administration > Moderator page

The **Moderator** page provides control of which device, that are casting, are permitted to display content. Refer to Moderator Mode (page 64) for more information.

Control of the second s	Moderator Moderator En	able:	
		Sers Name	Preview

## **Moderator**

#### Enable

Click this check box to enable or disable Moderator mode. If this box is checked, then Moderator mode is enabled. In order to monitor which devices are allowed to display content, this box must be checked before a device begins casting. If a device is already casting, then enabling this feature will have no effect.

### Users

This table lists all users which are casting using the AT-UHD-SW-510W. Up to four users can be hosted at one time, but only one can be displayed at a time. Devices will only appear in this table when they are casting. Moderator mode must be enabled for devices to be displayed in this table. When casting devices are displays an **Allow** and **Kick** button will also be displayed.



## Administration > Networking page

This page contains a **WiFi** and **Ethernet** tab. Use the settings, under these tabs, to connect the AT-UHD-SW-510W to a network or wireless Access Point (AP). Refer to the IT Network Deployment Guide for detailed information on configuring the AT-UHD-SW-510W in various network environments.

SW510W-B369	General         Hostname: sw510x-5369           Ethernet         MAC Address: 00 1e 06 36 53 69					
General System Status Splash Screen Roufing Display ED/O - Administration Tainat Moderation Natworking Dabag User Accounts Advanced Pre-Relasse	Mode         DHOP         N           IP Addees         10.1.5.16         IN           IP Addees         10.1.1.564         IN           Note and the control of the second seco		General	Hostname:	sw510w-b369	
Audio Event Viewer Logout	Mote Disabled  Save Save Changes: Revert Changes: Factory Reset Detings: Reset		Ethernet			ī.
				MAC Address:	00:1e:06:36:b3:69	L
				Mode:	DHCP 🗸	L
		\		IP Address:	10.1.0.146	L
				Network Mask:	255.255.254.0	L
				Gateway:	10.1.1.254	L
				DNS Server #1:		L
				DNS Server #2:		L
			802.1x	Security Enable:		L

## General

## Hostname

The name assigned to the AT-UHD-SW-510W. This name can be changed, if desired. Refer to Changing the SSID (page 50) for more information.

### Ethernet

## **MAC Address**

Displays the MAC address of the AT-UHD-SW-510W.

## Mode

Click this drop-down list to select the desired IP mode.

Setting	Description
DHCP	Select this option to have a DHCP server (if available) assign an IP address to the AT-UHD-SW-510W.
Static	Select this option to enter a specific IP address. When set to Static mode, the subnet mask, gateway, and DNS servers can be specified.
Factory Static	<ul> <li>Select this option to use the factory-default wired network settings. In this mode, only the DNS Server fields can be modified. The IP Address, Network Mask, and Gateway fields will be set to the following values:</li> <li>IP Address = 192.168.1.254</li> <li>Network Mask = 255.255.0.0</li> <li>Gateway = 192.168.1.1</li> </ul>



	General Hostname: sw510w-b369				
SW510W-B369 Info General System	Ethernet MAC Address: 00.1e.06.36.b3.69 Mole: DHCP		Ethernet		
Status Splash Screen Routing Display EDID	IP Address         101.0.14           Network Mask         255.255.254.0           Okteway         101.1.254           DNS Server#1:	*	MAC Address:	00:1e:06:36:b3:69	
Administration     Telnet     Moderator     Networking     Debug     Lise Accounts	DNS Server #2: 802 1x Security Enable:	$\langle \rangle$	Mode:	DHCP	
Advanced Pre-Release Audio Event Viewer Logout	MAC Address: 74 da 38 ef 49 58 Mode: Disabled		IP Address:	10.1.0.146	i   -
	Save Changes: Save Revert Revert Changes: Revert Revert Revert Revert Revert Revert Reset Revert		Network Mask:	255.255.254.0	i II
			Gateway:	10.1.1.254	i II
			DNS Server #1:		i II
			DNS Server #2:		i II
			802.1x Security Enable:		1
					_

## **IP Address**

Enter the desired IP address for the AT-UHD-SW-510W in this field. This field can only be changed when **Mode** is set to **Static**.

### **Network Mask**

Enter the subnet mask in this field. This field can only be changed when Mode is set to Static.

### Gateway

Enter the gateway (router) address in this field. This field can only be changed when Mode is set to Static.

## DNS Server #1 / DNS Server #2

Enter the DNS server addresses in the DNS Server #1 and DNS Server #2 fields. If the AT-UHD-SW-510W will be used within an internal LAN, this information is not required. This field can only be changed when **Mode** is set to **Static**.

### 802.1x Security Enable

Click this checkbox to enable 802.1x authentication mode. When enabled, the Radius server, Radius port, and Radius secret fields will be available. Refer to 802.1X Authentication (page 51) for more information.



ATLONA	General					
a Reser concerv	Hostname.	sw510w-b369				
SW510W-B369	Ethernet					
Info	MAC Address:	00.1e.06.36.b3.69		WiFi		
System	Mode:	UHCP V		•••••		
Status Splash Screen	Network Mask:	255 255 254.0				
Routing	Gateway:	10.1.1.254		MAC Address:	74:da:38:ef:d9:58	
EDID	DNS Server #1;			millio riddrood.	14.00.00.00.00	
<ul> <li>Administration Telnet</li> </ul>	DNS Server #2:					
Moderator	802.1x Security Enable:			Mode:	Access Doint	2.4
Debug				woue.	Access Follit	~
User Accounts Advanced	WIFI MAC Address:	74 da 38 ef d9 58				
Pre-Release Audio	Mode:	Access Point V		0010	540 1.000	
Event Viewer	SSID:	sw510w-b369		SSID:	sw510w-b369	
Logout	Password:					
	Show AP Credentials:					
	No Password in AP Mode:		7	Password:		
	Hide Password on OSD:			r aborrora.		
	Rotate Password:					
	Channel:	48 ~		Ohann A.D. Oas da stieler		
	Access Point Power Level:	0 ~		Show AP Credentials:	×	
	DNS Mode:	Use default DNS Servers V			_	
	DNS Server #1:	8888			_	
	Division of the second	8.8.4.4		No Password in AP Mode:		
	802 1v Sacurity Enabla:	None				
	ouz. IX accurity Enable.					
	Save			Hide Password on OSD:		
	Save Changes:	Save		Tilde Lassword on OSD.		
	Revert Changes:	Revert				
	Factory Reset Settings:	Reset		Datata Dagawardi		
				Rotate Password:		
					_	
				Channel:	48	~
					10	· · · · ·
				Access Doint Dower Lovel:	0	
				Access Foint Fower Level.	U	$\mathbf{v}$
					[	
				DNS Mode:	Use default DNS Servers	V
						-
				DNS Server #1:	0000	
				DNG Server #1.	0.0.0.0	
				<b>D</b> 110.0	0.0.1.1	
				DNS Server #2:	8.8.4.4	
				Eirowall Modo:	Nono	24
				r newan woue.	None	~
				802.1x Security Enable:		

## WiFi - Access Point Mode

### Mode

Click this drop-down list to select the desired WiFi mode.

Setting	Description
Access Point	Select this option to configure the AT-UHD-SW-510W as a Wireless Access Point, allowing other wireless devices to connect to the same wired network as the AT-UHD-SW-510W.
Connect to WiFi	Select this mode to connect the AT-UHD-SW-510W to the specified SSID of a wireless host.
Disabled	Select this mode to disable Wi-Fi on the AT-UHD-SW-510W.

### SSID

The SSID assigned to the AT-UHD-SW-510W. The SSID name can be changed. Refer to Changing the SSID (page 50) for more information.

## Password

Enter the password required to connect to the AT-UHD-SW-510W.

### **Show AP Credentials**

Check this box to display the Username and Password credentials on the splash screen.

### **Hide Password on OSD**

By default, the password will be displayed on the splash screen. Check this box to hide the password on the splash screen.



	General Hostname:	sw510w-b369				
SW510W-B369 Info General System	Ethernet MAC Address: Mode:	00:1e:06:36:b3:69 DHCP V		WiFi		
Status Splash Screen Routing Display EDID • Administration	Network Mark         255 255 254 0           Gateway:         10.11 254           DNS Generation         10.11 254	MAC Address:	74:da:38:ef:d9:58			
Telnet Moderator Networkting Debug User Accounts Advanced Pre-Release Audio Event Viewer Logout	002.1x Security Enable:			Mode:	Access Point	~
	MAC Address Mode: SSID: Password:	Access Point		SSID:	sw510w-b369	
	Show AP Credentials: No Password in AP Mode: Hide Password on OSD: Rotate Password:			Password:	•••••	
	Channel: Access Point Power Level: DNS Mode: DNS Server #1:	48		Show AP Credentials:		
	DNS Server #2: Firewall Mode: 802.1x Security Enable:	8.8.4.4 None ~		No Password in AP Mode:		
	Save Save Changes: Revert Changes:	Save Revert		Hide Password on OSD:		
	Factory Reset Settings:	Reset		Rotate Password:		
				Channel:	48	~
				Access Point Power Level:	0	~
				DNS Mode:	Use default DNS Servers	~
				DNS Server #1:	8.8.8.8	
Rotate	Passwo	ord	mly	DNS Server #2:	8.8.4.4	
generat	e a new	password af	ter	Firewall Mode:	None	~
the spe expired	citied tin	ne interval ha	S	802.1x Security Enable:		

## Channel

Click this drop-down list to select the desired wireless channel. Channels 1 through 11 are 2.5 GHz channels. Channels 36 and above are 5 GHz channels. Contact the network administrator if necessary.

## **Access Point Power Level**

Sets the transmission power of the USB WiFi antennas. Click the drop-down list to select the power level. Available values are integers 0 through 13. Lower values will reduce transmission power of the USB WiFi antenna, thus limiting the range of the Access Point on the AT-UHD-SW-510W.

## **DNS Mode**

Click this drop-down list to select the desired DNS mode.

## DNS Server #1 / DNS Server #2

Enter the DNS server addresses in the **DNS Server #1** and **DNS Server #2** fields. If the AT-UHD-SW-510W will be used within an internal LAN, this information is not required.

## **Firewall Mode**

This feature is only available when the WiFi mode is set to Access Point. Click the **Firewall Mode** drop-down list to select the desired mode. This feature allows control of incoming and outgoing network traffic. The AT-UHD-SW-510W provides the following firewall modes: **Block Private Network**, **Block Internet**, **Block All**, and **None**. Refer to Firewall Mode (page 46) for more information.

### 802.1x Security Enable

Click this checkbox to enable 802.1x authentication mode. When enabled, the Radius server, Radius port, and Radius secret fields will be available. Refer to 802.1X Authentication (page 51) for more information.



~	General				
	Hostname:	sw510w-b369			
			<b>F</b>		_
SW510W-B369	Ethernet	00.1-05.25.42.60			- 84
Info	Mode:	DHCB	WiFi		- 81
System	ID Address				- 81
Status Solarb Scroop	Network Meets	010.10.140			- 81
Routing	Coleman Coleman	205.205.204.0	MAC Addrose:	74-do-38-of-d0-58	- 81
Display EDID	DNS Server #1	10.1.1.254	MAC Address.	74.ua.30.ei.u3.30	- 81
<ul> <li>Administration</li> </ul>	DNS Server #2				- 81
Teinet Moderator	802 1x Security Enable:				
Networking		_	Mode:	Connect to WiFi	- 81
User Accounts	WiFi				
Advanced Pro-Release	MAC Address:	74.da.38.ef.d9.58			
Audio	Mode:	Connect to WiFi 🗸 🗸	Preferred Gateway:	Ethornot	- 81
Event Viewer Logout	Preferred Gateway:	Ethernet 🗸	r referred Oateway.	Luieniet	- 81
	SSID:	Pick			
	Password:				
	Status:	Unknown	SSID:	Pick	- 81
	IP Address:	192.168.43.1			
	Network Mask:	255.255.255.0			
	Gateway:		Deseuverd		
	DNS Server #1:		Password.	*******	- 81
	DNS Server #2:				
	802.1x Security Enable:				- 81
	Save		Status:	Unknown	- 81
	Save Changes:	Save	otatao.	onatorn	- 81
	Revert Changes:	Revert			
	Factory Reset Settings:	Reset	ID Addresses	400.400.40.4	
			IP Address.	192.168.43.1	- 81
			Network Mask:	255 255 255 0	- 81
			riotriont maon.	200.200.200.0	- 81
			Ostava		
			Gateway:		
			DNS Server #1:		
			DINO DEIVEL #1.		
			D110.0		
			DNS Server #2:		
			002 1x Security Enchlor		
			ouz. IX Security Enable.		
					- 81
					- 81

## WiFi - Connect to WiFi Mode

### Mode

Click this drop-down list to select the desired WiFi mode.

Setting	Description
Access Point	Select this option to configure the AT-UHD-SW-510W as a Wireless Access Point, allowing other wireless devices to connect to the same wired network as the AT-UHD-SW-510W.
Connect to WiFi	Select this mode to connect the AT-UHD-SW-510W to the specified SSID of a wireless host.
Disabled	Select this mode to disable Wi-Fi on the AT-UHD-SW-510W.

### **Preferred Gateway**

When set to **Connect to WiFi** mode, the AT-UHD-SW-510W can only be accessed though the same network, over Ethernet or WiFi, not both. For example, if **Ethernet** is selected, then the AT-UHD-SW-510W can only be accessed from the same network over Ethernet. However, it should be noted that casting is supported on *both* interfaces, simultaneously.

## SSID

Click the **Pick** button to display a pop-up dialog displaying all available WiFi networks. Click the desired WiFi network from the list and click the **OK** button to accept the selection or click **Cancel** to return without making a WiFi network selection. When a wireless network is selected, its name will appear in the **SSID** field.

### Password

Enter the password required to connect to the wireless network, in this field.

### Status

This field indicates the connection state. If no connection is present, then this field will indicate Unknown. Once a valid wireless connection has been established, this field will indicate Connected.



	General Hostname: sw510w-b369				
SW510W-B369 Info General System	Ethernet         MAC Address:         00.1e.06.36.b3.69           Mode:         DHCP		WiFi		
Status Splash Screen Routing Display EDID	IP Address:         10.10,146           Network Mask:         255.255.254.0           Oateway:         10.1.1254           DNS Server#1:		MAC Address:	74:da:38:ef:d9:58	
<ul> <li>Administration Telnet Moderator</li> <li>Networking Debug User Accounts</li> </ul>	DNS Server #2: 802.1x.Security Enable:		Mode:	Connect to WiFi	~
Advanced Pre-Release Audio Event Viewer Logout	MAC Address: 74 da 38 ef d9 58 Mode: Connect to WFi Prefered Gatewy: Ethernet		Preferred Gateway:	Ethernet	~
	Password		SSID:		Pick
	Network Mark         255,255,255.0           Gateway:		Password:	•••••	
	802.1x Security Enable:  Save Save Save Save Save		Status:	Unknown	
	Revert Changes: Revert Factory Reset Settings: Reset	1	IP Address:	192.168.43.1	
			Network Mask:	255.255.255.0	
			Gateway:		
			DNS Server #1:		
			DNS Server #2:		
			802.1x Security Enable:		
IP Addr The IP a	<b>'ess</b> address of the wireles	s			
network	which the AT-UHD-	SW-	_		
510W is	s connected.	\	Save		
Networ	k Mask		Save Changes:	Save	
The net network	work mask of the wir which the AT-UHD-	eless SW-	Revert Changes:	Revert	
510W is	s connected.		Factory Reset Settings:	Reset	
<b>Gatewa</b> This fiel	a <b>y</b> d cannot be changed	ł.			

## DNS Server #1 / DNS Server #2

These fields cannot be changed.

### 802.1x Security Enable

Click this checkbox to enable 802.1x authentication mode. When enabled, the Radius Server, Radius Port, and Radius Secret fields will be available. Refer to 802.1X Authentication (page 51) for more information.

### Save

#### Save

Click this button to commit changes within the **Network** menu.

### Revert

Click to abort changes.

#### Reset

Click this button to reset the network settings to factory-default settings.



## Administration > Debug page

Click the **Download Logs** button to download the debug logs. Debug logs are downloaded in a .zip file. Debug logs are used by Atlona Technical Support Engineers to identify functionality issues.



- 1. Click **Debug** on the side menu bar.
- 2. Click the **Downloads Logs** button to display the **Save As** dialog box.
- 3. Browse to the desired folder where the .zip file will be downloaded.
- 4. Click the Save button on the Save As dialog to save the debug log file.



## Administration > User Accounts page

This page allows the default password to be changed.

SW510W.B369 Info General System Status Status Splash Screen Rouding Display EDID - Administration Teloct Moderator Networking	User Accounts Uses thme LatLogn thme LatLogn T1/23/2026 5/5 PM Change	User Accounts		
Debug User Accounts Advanced Pre-Release Audio		Users		
Event Viewer Logout		Name	Last Login	Password
		admin	11/23/2020 5:55 PM	Change

1. Click the Change button to display the Change Password dialog box.

Change Password: admin				
Change the password for: admin				
Password:	•••••			
Repeat Password:	•••••			
S	Save Cancel			

- 2. Enter the new password in the **Password** field.
- 3. Re-enter the same password in the **Repeat Password** field.
- 4. Click the Save button to commit changes or click Cancel to abort the process.



## Administration > Advanced page

This page provides options for advanced functionality.

SW510W-B369	Telnet Enable Telnet. Telnet Authentication: Enable WhiteEning:	k		
Info General System Status Solash Screen	Witheast Save	$\backslash$	Telnet	
Routing Display EDID • Administration Telnet Moderator	Max 8Y00 Time: 1 hour V Kick User Kick ArPlay Bustoth APPay Bustoth		Enable Telnet:	
Networking Debug User Accounts Advanced Pre-Ralease	AirPlayMiracast P2P PIN: Update PIN every new com		Telnet Authentication:	
Audio Event Viewer Logout	Georgie Cast Enable: 🕑 Mitracast Enable: 🗠 Casting Device Name Display: 💿		Enable Whitelisting:	
	Front Panel		Whitelist:	
	Arrow Button: Volume Volume		Save Whitelist:	Save
	Portal Mode: HTTP and HTTPS V Block USB HID: Enable REST API Authentication:			
	Firmware MCU Firmware: Upload			
	Maintenance Allow Maintenance Window:			
	Output Falbeck BYOD ~			

### **Telnet**

## **Enable Telnet**

Click this check box to enable or disable the Telnet protocol for the AT-UHD-SW-510W. When checked, Telnet is enabled.

### **Telnet Authentication**

Click this check box to enable or disable the Telnet authentication. When checked, Telnet is enabled. When this feature is enabled, username and password credentials will be required at the beginning of the Telnet session.

### **Enable Whitelisting**

Click this check box to enable whitelisting. Whitelisting only allows Telnet access to those users within the specified network. Users outside the network will not be granted access.

#### Whitelist

Enter the network IP address using CDIR notation (e.g. 192.168.11.1/24), in this field. Multiple network IP addresses can be specified with a comma and space: 192.168.11.1/24, 10.0.1.1/24.

### **Save Whitelist**

Click the **Save** button to save the whitelist field.



	Teinet Erstele Teinet:				
General System Status	Save Whitelist. Save		BYOD		
Splash Screen Routing Display EDID • Administration Telnet Moderator	BYOD Max 6YOO Time: Thour V Kick Usar: Kick AuPlay Bustooth AirPiay Bustooth - Discovery: Ethemet V		Max BYOD Time:	1 hour 🗸	
Networking Debug User Accounts Advanced	AirPlay/Miracast P2P PIN:	1	Kick User:	Kick	
Pre-Release Audio Event Viewer Logout	Casting Device Name Display: Ripped Frame Display: Ripped Frame Display: Ripped Frame Display:	$\backslash$	AirPlay Bluetooth		
	Front Panel		AirPlay Bluetooth - Discovery:	Ethernet 🗸	
	Arrive sounds. Volume Lack Power Buttor: Security Portal Mode: HTTP and HTTPS V	\	AirPlay/Miracast P2P PIN:		
	Block USB HID:		AirPlay/Miracast P2P PIN expiration:	Update PIN every new conn 🗸	
	Firmware MCU Firmware: Upload		AirPlay Enable:		
	Allow Maintenance Window: C Output Fallback: BYOD		Google Cast Enable:		
			Miracast Enable:		
			Casting Device Name Display:		
			Repeat Frames Enable:		
BYOD			Kick at Blank:		

## Max BYOD Time

Click this drop-down list to select the desired time interval before the connected BYOD is automatically disconnected from the AT-UHD-SW-510W. Available options are 35 minutes to 5 hours.

### **Kick User**

Click this button to disconnect the current BYOD.

### **Airplay Bluetooth - Ethernet**

Click this check box to enable Bluetooth discovery when using an Ethernet connection. Refer to AirPlay Bluetooth Discovery (page 60) for more information.

### Airplay Bluetooth - WiFi

Click this check box to enable Bluetooth discovery when using a WiFi connection. Refer to Refer to AirPlay Bluetooth Discovery (page 60) for more information.

### Airplay/Miracast P2P PIN

Click this check box to allow the ability to add randomized PIN codes when connecting using AirPlay.

#### Airplay/Miracast P2P PIN expiration

Click this drop-down list to select the time interval before a new PIN code is requested by the system. This dropdown list is only available if the **Airplay/Miracast P2P PIN** check box is checked.

Setting	Description
Update Pin every new connection	A new PIN code is generated each time a device attempts to connect to the AT-UHD-SW-510W.
Update Pin every 15 minutes	A new PIN is generated every 15 minutes, whether or not a connection request is made.
Update Pin every 60 seconds	A new PIN is generated every 60 minutes, whether or not a connection request is made.



## **Airplay Enable**

Click this check box to enable AirPlay. This option is enabled by default.

#### **Google Cast Enable**

Click this check box to enable Google Cast<sup>™</sup>. This option is enabled by default.

#### **Miracast Enable**

Click this check box to enable Miracast. This option is enabled by default.

### **Casting Device Name display**

Check this box to show the hostname of the casting device on the splash screen.

#### **Kick at Blank**

Click this check box to allow the AT-UHD-SW-510W to kick the wireless BYOD client when the device goes to sleep.

AATLONA	Telnet			
a Baser company	Enable Telnet:			
SW510W-B369	Enable Whitelisting:			
Info	Whitelist			
General	Save Whitelist: Save			
Status				
Splash Screen Routing	BYOD	,		
Display	Max BYOD Time: 1 hour v		Encode Descal	
<ul> <li>Administration</li> </ul>	AirPlay Bluetooth		Front Panel	
Telnet Moderator	AirPlay Bluetooth - Discovery: Ethernet			
Networking	AirPlay/Miracast P2P PIN:			
User Accounts	AirPlay/Miracast P2P PIN expiration: Update PIN every new conn 🗸		Arrow Buttons:	Volume 🗸 🗸 🗸
Pre-Release	AirPlay Enable: 🕑			
Audio Event Viewer	Google Cast Enable:			_
Logout	Miracast Enable:		Lock Power Button:	
	Repeat Frames Enable:			
	Kick at Blank:			
	Front Panel			
	Lock Power Button:			
	Security			
	Portal Mode: HTTP and HTTPS V		C	
	Block USB HID:		Security	
	Enable CORS:		-	
			Destat Market	
	Firmware		Portal Mode	E   HITP and HITPS V
	MCU Firmware: Upload			
	Maintenance			-
	Allow Maintenance Window:		Block USB HIE	);
	Output			_
	rabat. DTOD V		Enable REST API Authentication	n:
			Enable CORS	
			Enable CONC	^· 📋

## **Front Panel**

#### **Lock Power Button**

Check this box to enable or disable the locking of the **POWER** button on the front panel. Locking this button will prevent accidental pressing of the **POWER** button and powering-off the unit.

### Security

### **Portal Mode**

Click this drop-down list to select the desired HTTP protocol.

Setting	Description
HTTP and HTTPS	Provides either HTTP or HTTPS connections at the login screen.
HTTPS	Used for secure connections only.

## Block USB HID

Deactivates / disables the USB ports on the rear panel of the AT-UHD-SW-510W.



## **Enable REST API Authentication**

Enables or disables REST authentication when using the AT-UHD-SW-510W API. Click this check box to enable the feature.

## **Enable CORS**

Check this box to enable Cross-Origin Resource Sharing (CORS). This allows the AT-UHD-SW-510W to connect with certain servers. CORS is a method which allows restricted resources on a web page to be requested from another domain. Resources can include stylesheets (CSS), scripts, and other embedded elements.

SV5070X 3520       Thirst       Extel link link (*)         Min       Grand (*)       Thirst       Extel link link (*)         SV5070X 3520       Min       Thirst       Extel link link (*)         Status (Notation (*)       Thirst       Extel link link (*)       Thirst         Status (Notation (*)       Thirst       Extel link link (*)       Thirst         Status (Notation (*)       Thirst       Thirst       Thirst         Status (Notation (*)       Thirst       Thirst       Thirst         Status (*)       Thirst       Thirst       Thirst       Thirst         Status (*)       Thirst       Thirst       Thirst       Thirst       Thirst         Status (*)       Thirst       Thir	Security Portal Mode: HTTP and HTTPS Block USB HID: Enable REST API Authentication: Enable CORS: Firmware MCU Firmware: Upload
	Maintenance Allow Maintenance Window:          Output         Fallback:       BYOD

## Firmware

#### Upload

Click this button to upload the latest MCU firmware to the AT-UHD-SW-510W. Refer to Updating the Firmware (page 110) for more information.

#### Maintenance

#### **Allow Maintenance Window**

Check this box to enable maintenance mode. This feature can only be enabled if the local time has been set. Refer to Setting the System Date and Time (page 24) for more information. When enabled, the system will automatically restart all of its processes at 3:30 PM, every day.

### Output

#### Fallback

This bypasses the default behavior of the system to fallback to the BYOD splash screen. If no video is detected, the AT-UHD-SW-510W immediately mutes the output instead of falling back to the splash screen.



## Administration > Pre-Release page

This page lists beta features, which are currently in the pre-release / testing stage. It should be noted that these features may not function reliably.

Constraints of the second seco	Pre-Relass Caentar Vece (denary Rem Beer Opprer Seer Opprer Seer Opprer	Pre-Release Calendar: Velocity Gateway: Room: Show Subject: Show Organizer:	□ □ ✓ ✓ ✓ Save	

## **Pre-Release**

Features listed under this window group can change between versions. As these features are not officially released, they are not documented.



## Administration > Audio page

This page provides control over the audio output level, as well as selecting analog or digital audio sources for each input.

Control of the second s	Audio Mater Volume	Audio Master Volume:		
		Audio Input		
		HDMI 3:	Digital	~
		HDMI 4:	Digital	~
		USB-C:	Digital	~
		DP:	Digital	~
				_

## Audio

## **Master Volume**

Click and drag this slider to adjust the output volume. Output is adjustable from -80 to 0 dB.

## **Audio Input**

## HDMI 3, HDMI 4, USB-C, DP

Click these drop-down lists to select the desired audio input source. If **Analog** is selected, then the analog audio source, connected to the 3.5 mm **AUDIO IN** port, will be heard on that output. Refer to Audio Management (page 59) for more information.


## Configuration and Management Interfaces

### Administration > Event Viewer page

This page displays a dynamic list of events, returned in JSON format. The image below, shows a list of sample events. This page is useful for monitoring events and troubleshooting the AT-UHD-SW-510W.





## Updating the Firmware

The following procedure outlines the firmware update procedure for the AT-UHD-SW-510W. This product can only be updated through the web GUI.



**WARNING**: Do not physically reboot the system during the update process. Doing so may cause firmware file corruption and/or system instability.

#### **Requirements:**

- AT-UHD-SW-510W
- Firmware file
- Computer on a network that can reach the network where AT-UHD-SW-510W is connected

## Updating from Version 2.0.0 or later

**IMPORTANT**: This section applies *ONLY* to upgrading from version 2.0.0 or later. The AT-UHD-SW-510W *must* be running Master Firmware version 2.0.0 in order to upgrade to the latest version.

If the AT-UHD-SW-510W is running an earlier version of firmware, then refer to **Updating from 1.2.1-5 or earlier**, on page 112, and complete that procedure before continuing.



- 1. Download the latest firmware from atlona.com and extract the contents of the .zip file to a folder on the computer.
- 2. Connect the computer, containing the firmware files, to the same network as the AT-UHD-SW-510W.
- 3. Press and release the **IP** button on the front panel. The IP address of the AT-UHD-SW-510W will appear on the connected display.



**NOTE:** If using hardware revision A or B, simultaneously press and hold the **INPUT** and  $\Lambda$  buttons on the front panel for five seconds, then release. The IP address will appear on the connected display. The hardware revision can be found on the label, on the bottom of the unit.

- 4. Launch a web browser and enter the IP address of the AT-UHD-SW-510W in the address bar.
- 5. The Login screen will be displayed. Enter the login credentials.
- 6. Click System on the side menu bar.
- 7. Click the Upload button and select the SW510\_MS52W-[version].bin file. Refer to the illustration on the next page.
- 8. During the update process, the following message will appear in the upper-right corner of the screen. Note that the update process may take **up to five minutes to complete**. The unit will automatically reboot as part of the update process.



EDID Administration	Firmware		
Logout	Model Name:	AT-UHD-SW-510W	
	Master Version:	2.0.0	
	Firmware Version:	V1.1.05	
	Firmware Check	Check	
	Update Firmware:	Upload	

9. After the firmware process has completed, the AT-UHD-SW-510W will automatically reboot and the following message will appear at the top of the screen:



10. Click the message or press the ESC key to return to the Login screen. Enter the login credentials.

Communication problem Take note of any unsaved data, and click here or press ESC to continue.

11. The firmware update is complete.



## Updating from Version 1.2.1-5 (or ealier)

- 1. Download the firmware file from the Atlona product page.
- 2. Connect the computer, containing the firmware files, to the same network as the AT-UHD-SW-510W.
- 3. Press and release the IP button on the front panel. The IP address will appear on the connected display.



**NOTE:** If using hardware revision A or B, simultaneously press and hold the **INPUT** and  $\Lambda$  buttons on the front panel for five seconds, then release. The IP address will appear on the connected display.

- 4. Launch a web browser and enter the IP address of the AT-UHD-SW-510W in the address bar.
- 5. The **Login** screen will be displayed. Enter the login credentials. The default username and password are listed below:
- 6. Click System on the side menu bar.
- 7. Click the Upload button next to Master Firmware and select the SW-510W MASTER 2.0.0-A.war file.





**WARNING**: Do not physically reboot the system during the update process. Doing so may cause firmware file corruption and/or system instability.

8. During the update process, the following message will appear in the upper-right corner of the screen. Note that the update process may take **up to five minutes to complete**. The unit automatically reboots.





**NOTE:** Depending upon the currently-loaded firmware, a "hard reboot" may be required in order to reestablish communication with the webGUI. To perform a hard reboot, disconnect the power cord, wait 10 seconds, then reconnect the power.



9. The following message will appear at the top of the screen. Click the message or press the ESC key to return to the **Login** screen. Enter the login credentials.

Communication problem Take note of any unsaved data, and click here or press ESC to continue.

10. Click Info on the side menu bar and check the Firmware Version.

ATLONA AT-UHD-SW-510W	Info Model Name:	AT-UHD-SW-510W	
SW/510 E753	Date / Time:	Sep 19 2018, 23:12:01 UTC Firmware Version	
SW010-E703	Master Version:	1.1.2	
Info	Firmware Version:	V1.1.05	
General	Warning:	The default password is being used!	
System		Please change the password	
Splash Screen			

- If the Firmware Version reads **1.1.05**, then the firmware update process is complete. No additional steps are required.
- If the Firmware Version is an *earlier* firmware, then continue with Step 11.
- 11. Click System on the side menu bar.

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12. Click the Upload button, next to Update Firmware and select the SW510 MS52W-[version].bin file.

System	Shutdown:	Shutdown
Splash Screen Routing	Factory Reset:	Reset
Display		
EDID	Firmware	
<ul> <li>Administration</li> <li>Telnet</li> </ul>	Model Name:	AT-UHD-SW-510W
Moderator	Master Version:	1.1.2 Upload button
Debug	Firmware Version:	V1.1.05
User Accounts	Firmware Check	Check
Advanced Pre-Release	Update Firmware:	Upload
Audio Event Viewer		Please do not attempt to downgrade





13. During the update process, the following message will appear in the upper-right corner of the screen. Note that the update process may take **up to five minutes to complete**. The unit automatically reboots.



14. After the firmware process has completed, the AT-UHD-SW-510W will automatically reboot and the following message will appear at the top of the screen:

Communication problem Take note of any unsaved data, and click here or press ESC to continue.

- 15. Click the message or press the ESC key to return to the Login screen. Enter the login credentials.
- 16. Click **Info** on the side menu bar and check the presence of the **Firmware Version** section. It should read V1.1.05.

$\diamond$	Info	
AT-UHD-SW-510W	Model Name:	AT-UHD-SW-510W
	UTC Date / Time:	2019-05-01 22:18:10 UTC
SW510-E753	Master Version:	2.3.0 Firmware Version section
Info	Firmware Version:	V1.1.05
General	Warning:	The default password is being used!
System		Please change the password
Splash Screen		

- 17. If there is no Firmware Version section, then do the following:
  - a. Click System on the side menu bar.
  - b. Click the **Shutdown** button.
  - c. Wait one minute, then power-on the unit.
- 18. The firmware update process is complete.



# **Mounting Instructions**

The AT-UHD-SW-510W can be mounted in different ways, based on the number of units that are being installed. The AT-UHD-SW-510W can be mounted in a rack or on/under any flat surface.



**NOTE:** Rack ears (Altona part no. AT-UHD-SW-510W-RM) are sold separately. Contact Atlona for more information.

#### Single-unit Rack Installation

- 1. Attach the included small rack ear (sold separately) to one side of the AT-UHD-SW-510W, using the included screws.
- 2. Attach the included longer rack ear (sold separately) to the opposite side of the AT-UHD-SW-510W using the included screws.





### **Dual-unit Rack Installation**

- 1. Turn both units upside-down on a flat surface, next to each other, as shown.
- Position the included mounting plates over the holes on the bottom of the enclosure. When attaching mounting plates, 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.



# Specifications

Video				
HDMI	2.0 <sup>(1)</sup>			
HDCP	2.2 (wired-device connections, only)			
UHD/HD	4096×2160 @ 60 <sup>(2)</sup> /50/30/2 3840×2160 @ 60 <sup>(2)</sup> /50/30/2 1920x1080p @ 60/59.9/50/ /25/24/23.98 Hz 1920x1080i @ 30/29.97/25	5/24 Hz 5/24 Hz ′30/29.97 Hz	1280x720p 720x576p 720x576i @ 640x480p 640x480i @	o @ 60/59.94/50 Hz @ 50 Hz 9 50 Hz @ 60/59.96 Hz 9 30 Hz
VESA All resolutions are 60 Hz	2560×1600 2048×1536 1920×1200 1680×1050 1600×1200 1440×900 1400×1050 1280×1024		1280×800 1366×768 1360×768 1152×864 1024×768 800×600 640×480	
USB-C <sup>(3)</sup>	Up to 4K/UHD @ 60 Hz for devices supporting USB-C Alternate Mode video output			
Wireless	Up to 1080p @ 30 Hz 4:2:0 (up to 1080p @ 60 Hz with Miracast <sup>™</sup> ); dependent on wireless signal quality			
Color Space	YUV, RGB			
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0			
Color Depth	8-bit, 10-bit, 12-bit			
HDR <sup>(4)</sup>	HDR10, Hybrid-Log Gamma (HLG), and Dolby <sup>®</sup> Vision™ @ 60 Hz			
Audio				
HDMI / HDBaseT Pass- Through Formats	LPCM 2.0	Dolby® Digital Dolby Digital Plu Dolby TrueHD Dolby Atmos®	JS™	DTS® Digital Surround™ DTS-HD Master Audio™ DTS:X®
Bit Rate	24 Mbits/s max			
Analog Audio				
Format	2-channel stereo			
Balanced Output	+4 dBu, nominal gain; +20 dBu headroom			
Frequency Response	20 Hz to 20 kHz, ±0.5 dB			
THD + N	< 0.009% @ 20 Hz to 20 kHz			
SNR	> 94 dB @ 1 kHz, zero clipping @ 0 dBFS, unweighted			
Sample Rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz			

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Signal	2.0
Maximum Data Rate	120 Mbps
USB-C	Supports Audio, Video, device and host data, and up to 60W power charging
USB-C Device Charging Capability	Up to 20 V, 3 A Output: 60 W @ 20 V, 36 W @ 12 V, 15 W @ 5 V



Protocols	
Addressing	DHCP, static
Security	HTTPS, SSL, TLS
Authentication	IEEE 802.1x
Wi-Fi	IEEE 802.11n/ac 2.4 GHz / 5 GHz
Wi-Fi Security	WPA, WPA2, PSK
Control	
RS-232	Device control and configuration; supports baud rates from 2400 to 115200 Bidirectional pass-through from control system to network
TRIGGER	Occupancy sensor triggering; wake from standby and/or display power-up when room becomes occupied.
RELAY	Contact closure control for room functions such as motorized screens and display lifts, as well as occupancy sensing and remote button controls.

Resolution / Distance	4K/UHD - Feet / Meters		1080p - Feet / Meters	
HDMI IN/OUT	15	5	30	10
CAT5e	230	70	330	100
CAT6/6a/7	330	100	330	100

Connectors	
HDMI IN	2 - Type A, 19-pin female
HDMI OUT	1 - Type A, 19-pin female
DP IN	1 - 20-pin female
USB-C IN	1 - USB Type-C v3.1, 24-pin female, AV input (Alternate Mode)
USB	3 - USB 2.0 Type A for Wi-Fi® antenna modules
RS-232	1 - 3-pin captive screw (bidirectional)
RELAY	1 - 3-pin captive screw, normally open (NO), with adjustable Toggle and Pulse modes; Electrical rating: 48 V @ 1 A
TRIGGER	1 - 4-pin captive screw, supports 3 - 30 V DC input range, power supply is 12 V @ 100 mA max.
AUDIO IN	1 - 3.5 mm, unbalanced 2-channel
AUDIO OUT	1 - 5-pin captive screw, balanced / unbalanced 2-channel
HDBaseT OUT	1 - RJ45
LAN	1 - RJ45, 10/100/1000 Mbps
DC 24V	1 - 4-pin DIN, locking



Indicators and controls			
USB-C	1 - LED, blue		
DP	1 - LED, blue		
HDMI 3	1 - LED, blue		
HDMI 4	1 - LED, blue		
BYOD	1 - LED, blue		
Control Buttons	<ul> <li>4 - momentary, tact-type</li> <li>INPUT: Switches between inputs</li> <li>IP: Displays the IP address of the unit on the connected display</li> <li>POWER: Power-off the unit</li> <li>DISPLAY: Power-on / power-off the connected display</li> </ul>		
Environmental			
Operating Temperature	+32 to +122 °F 0 to +50 °C		
Storage Temperature	-4 to +140 °F -20 to +60 °C		
Operating Humidity (RH)	20% to 95%, non-condensing		
Dowor			
Consumption (full load)	101 W/		
Idle Consumption			
Supply	Input: 100 - 240 V AC, 50/60 Hz Output: 24 V / 5 A DC		
Dimensions (H x W x D)	Inches	Millimeters	
Unit Power Supply (AT-PS- 48208-D3) <sup>(5)</sup>	1.73 x 8.46 x 10.19 1.6 x 2.6 x 6.2	44 x 215 x 259 40.6 x 66 x 157.4	
Weight	Pounds	Kilograms	
Device	3.70 1.68		
Certification			
Device	CE, RoHS, FCC		

(1) 18 Gbps supported for HDMI 2.0 output. HDBaseT output limited to 10 Gbps.

(2) HDMI output supports 4K/UHD @ 50 or 60Hz with 4:4:4 chroma sampling. HDBaseT output supports 4K/UHD @ 50 or 60Hz with 4:2:0 chroma subsampling.

(3) USB-C does not support the following input resolutions: 2560x2048, 2048x1536, 2028x1080, and 1440x1050.

(4) HDR not supported on HDBaseT output.

(5) Revision A hardware uses AT-PS-245-C power supply. Revision B hardware uses AT-PS-245-D4 power supply. Power supply dimensions are the same.



