

# 4K/UHD 5 Input HDMI Switcher with Mirrored HDMI Outputs

AT-UHD-SW-52  
User Manual



Please check <http://www.atlona.com/product/AT-UHD-SW-52>  
for the most recent **firmware  
update** or **manual**

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## Introduction

The 4K/UHD 5 input HDMI switcher is an affordable 5-input, 2-output switcher with 4K pass through, IR, RS-232, and TCP/IP control, EDID and HDCP management, ARC, and mirrored HDMI outputs. The UHD-SW-52 provides an easy to install solution for home and small offices.

## Package Content

- 1 x UHD-SW-52
- 1 x 5V DC power supply
- 3 x Female captive screw connector (5pin: analog audio, 3 pin: RS-232, and 2 pin: power)
- 1 x Short rack ear
- 1 x Long rack ear
- 2 x Mounting plates
- 1 x Remote control
- 1 x Rubber feet
- 1 x User Manual

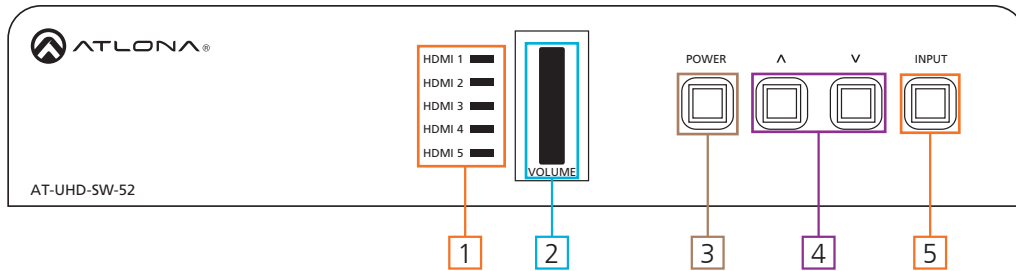
## Features

- Mirrored, dual HDMI outputs
- +18 dBu balanced analog audio output (maximum output level)
- Control volume using webGUI, IR, TCP/IP, or RS-232
- Smart switching with auto-detect (5V detect) for inputs (activated through RS-232 or TCP/IP)
- HDMI Audio Return Channel compatible
- HDCP management
- Supports 4K pass through @ 60Hz 4:2:0 chroma sub-sampling
- Supports Dolby® TrueHD and DTS-HD Master Audio™ pass-through ability when using an HDMI cable
- Digital audio de-embedding through the S/PDIF output for up to DTS 5.1™ and Dolby® Digital
- EDID management
- Easy to use webGUI through TCP/IP connection
- Half-rack size with rack mount ears

Consumer Electronics Control (CEC): Atlona has confirmed proper CEC functionality with several current models of Samsung, Panasonic, and Sony displays. However, it is not guaranteed that CEC will work with all displays. Many manufacturers do not support the CEC "off" command, and older displays use proprietary commands. Atlona only supports displays that use the CEC command structure defined in HDMI 1.2a. It is recommended that dealers request an evaluation product from Atlona, before designing a system using the CEC protocol. If this is not possible, then other control methods will need to be considered, in order to control displays using Atlona products.

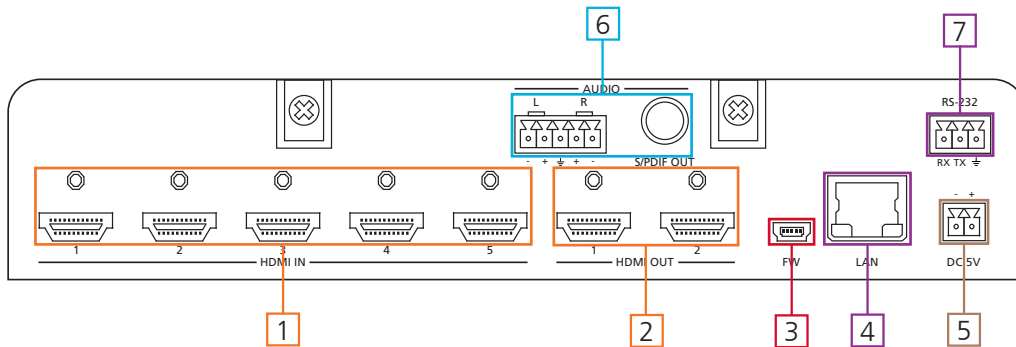
## Panel Descriptions

### Front Panel



1. HDMI LEDs - Illuminates to indicate the selected source
2. Volume LEDs - Displays the volume level
3. Power Button - Turns switcher on or places it in standby mode
4. Volume up/down - Adjusts output volume
5. Input Button - Switches between HDMI inputs

### Back Panel

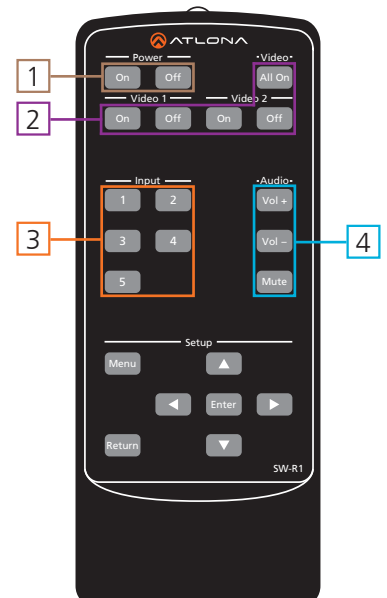


1. HDMI IN - Connect sources here
2. HDMI OUT - Connect to an HDMI display, extender, or switcher (mirrored outputs)
3. Mini USB port: Firmware update port, connect a Mini USB to USB A cable to a computer
4. LAN port - Connect network switch or router to this port for TCP/IP or webGUI control
5. DC 5V: Connect included locking, 5V DC power supply here
6. Audio output - Connect to an amplifier, mixer, DSP, audio receiver, or other audio device
7. RS-232 port - Connect control system to RS-232 port

## Remote Control

1. Power On/Off: Turn switcher power on and off
2. Video On/Off: Turns HDMI video off
3. Input selection: Selects source
4. Audio control: Adjust volume up/down
5. Mute: Mute output volume

**Note:** Setup buttons are not functional for the UHD-SW-52 switcher



## Audio Return Channel (ARC)

ARC enables a source connected to a display to route audio back to the switcher and send the de-embedded audio out the S/PDIF output.

### Steps

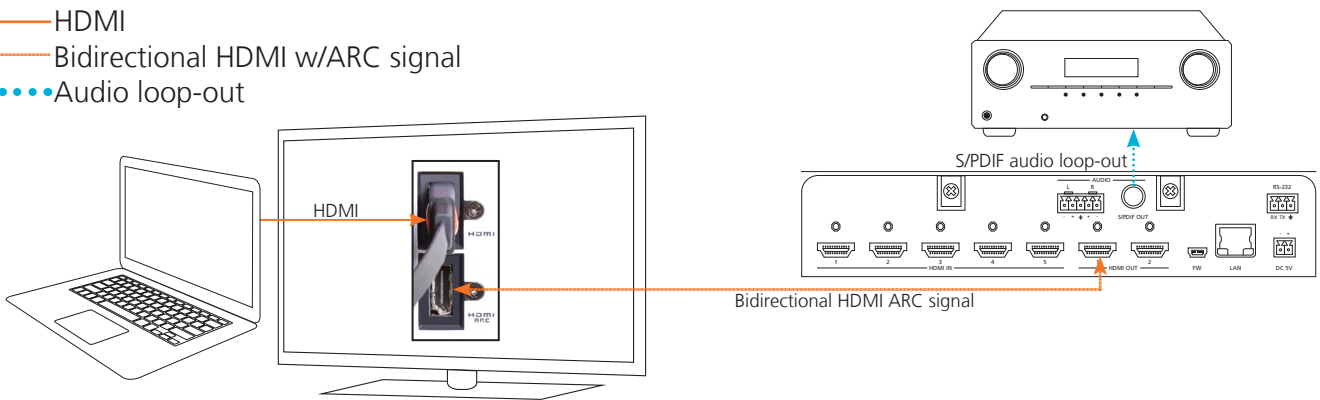
1. Check to be sure the display supports ARC
2. Enable ARC on HDMI output 1 of the switcher through RS-232 (command ARC on), TCP/IP, or webGUI
3. Connect HDMI output 1 of the switcher to the ARC labeled input port on the display

**NOTE:** The switcher must be connected to the display's HDMI ARC input

Note: Works well with audio from ARC enabled "Smart" televisions

4. Connect the source to a non ARC HDMI input port on the display
5. Connect the S/PDIF port to an AVR or Zone Amp

- HDMI
- Bidirectional HDMI w/ARC signal
- Audio loop-out



## Captive Screw

Captive screw connectors are an added feature on the UHD-SW. The Captive screw connectors allow you to cut cables down to a suitable length, reducing cable clutter while providing a more reliable connection.

### Connecting

When connecting the cables to the female captive screw connector it is important that the wires be terminated correctly. The female captive screw connector has a contact plate at the top and must have the wires touching it for signal to pass. When wired correctly (see picture A) the signal will pass, incorrectly (see picture B) no signal will pass.

The captive screw connectors have a contact bar that is adjusted to compress the wire against the top contact plate. Use the screws at the top of the connector to compress the wire against the contact plate.



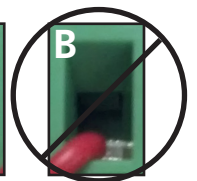
Clockwise

Turn the screws clockwise to raise the contact bar to the upper contact plate and hold the wires in place.



Counter Clockwise

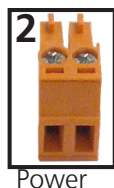
Turn the screws counter clockwise to lower the contact bar to release the wires.



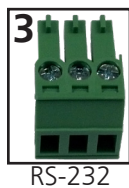
The power cable (picture 1) will have exposed wires. Each wire is encased in a different colored cover. Female captive screw connectors are included: Power (see picture 2) and RS-232 (see picture 3).



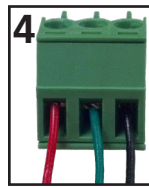
Black: - White: +



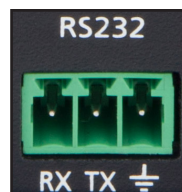
Power



RS-232



Pin out color will differ per RS-232 cable.

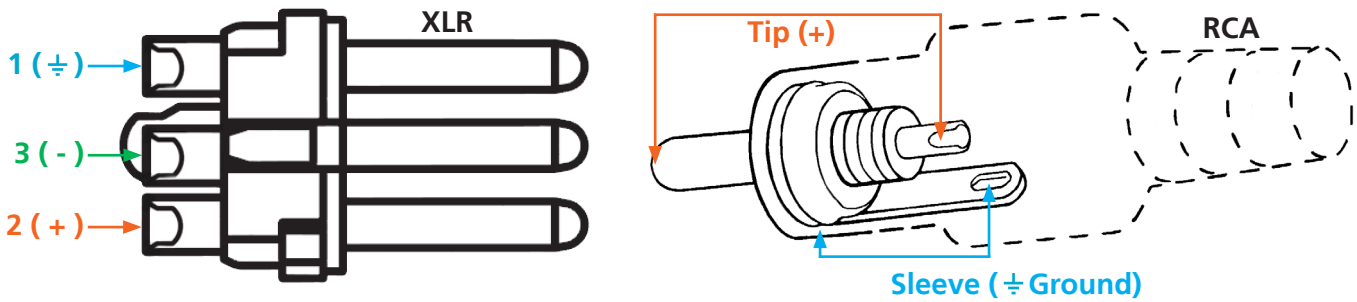


RS-232 pin out will be determined by the RS-232 cable and will connect as Rx (receiver), Tx (transmitter), and  $\perp$  (ground). (See picture 4)

## Analog Audio

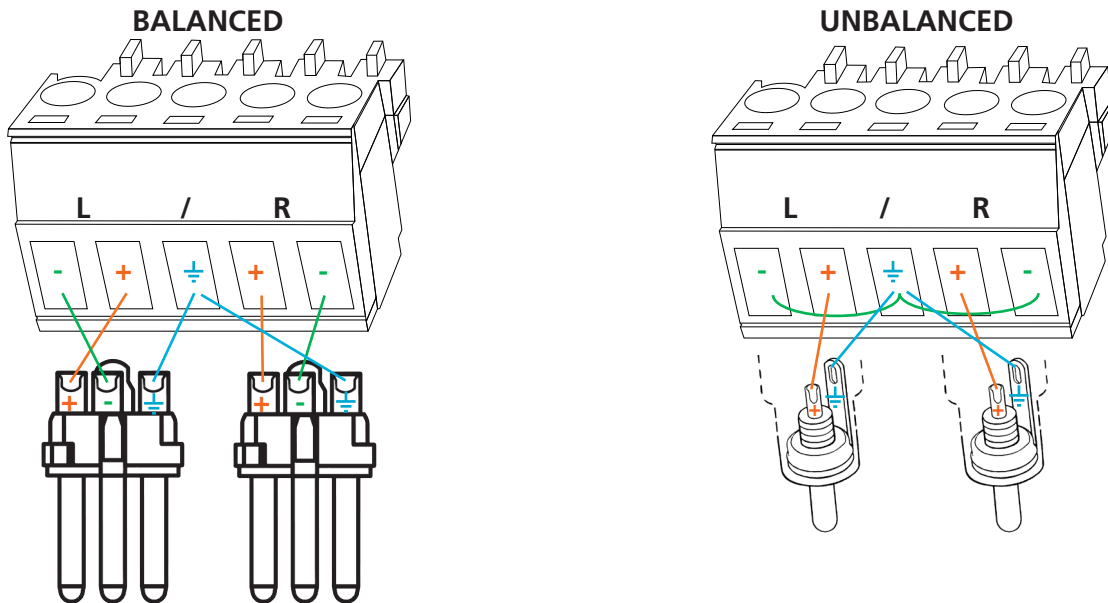
A captive screw analog audio connector is provided to ensure a more reliable and secure connection. The captive screw connector supports balanced and unbalanced audio output.

Balanced audio connections use two signal wires and a ground to ensure the least amount of interference to an audio signal over longer cable runs. Unbalanced audio connections use two wires for shorter audio runs.



**Note:** Pin outs may vary, please refer to the audio device’s manual to ensure a correct connection.

**Important!** When terminating cables, please ensure exposed adjacent wires do not touch. This may result in a short that can damage connected devices.



**Important!** With unbalanced connections a jumper is needed between ground and negative to reduce noise

## TCP/IP

For convenience, the UHD-SW comes with DHCP on. This enables the switcher to be connected to a network without knowing available IP addresses. If your network does not allow dynamic IP addresses or if you are using the UHD-SW with a TCP/IP control system, this feature may be turned off and the IP address set using RS-232 commands or the webGUI.

## AMS & WebGUI

Atlona provides two simple solutions for setup and control: a built in webGUI and the free software AMS.

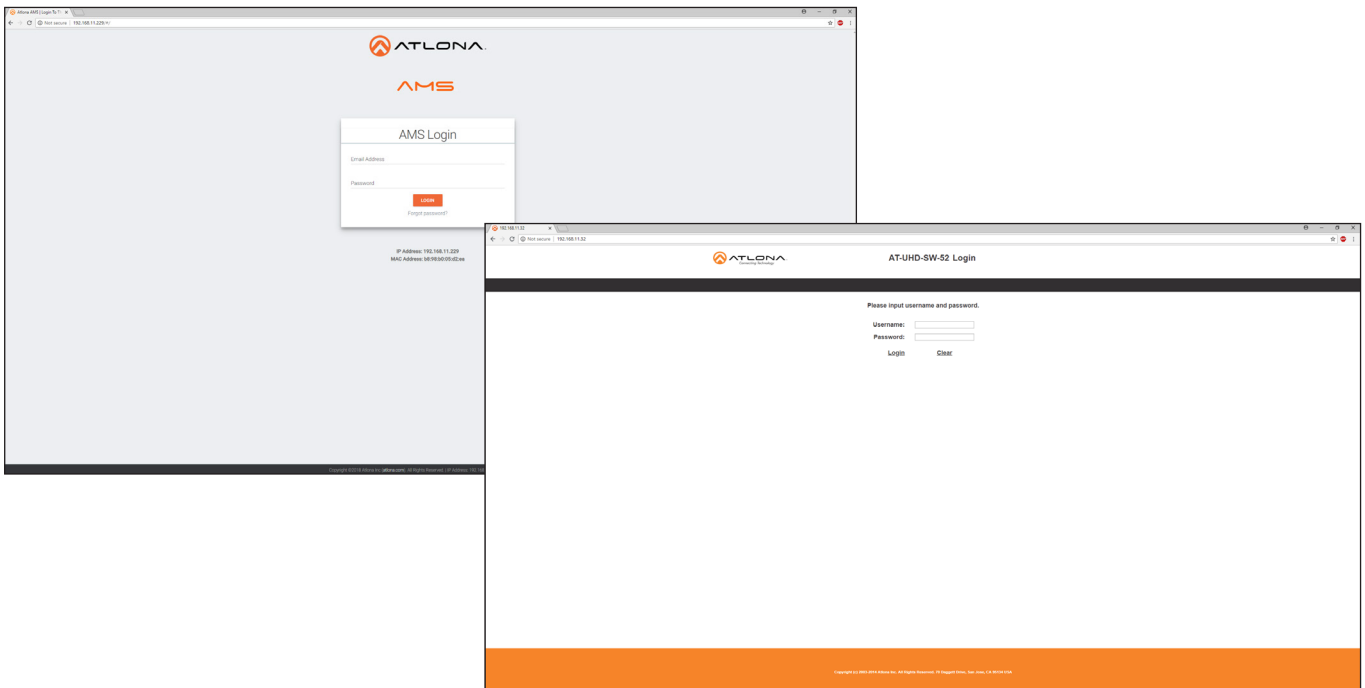
To download AMS, go to <http://atlona.com/product/at-sw-ams/>

**To get to the log in screen of AMS:** type localhost:8080 into the web browser on the computer AMS is running on. It will go straight to the log in for AMS.

To begin, plug a LAN cable into the LAN port of the UHD-SW-52 and the network switch, then type the IP address of the unit into a web browser of a PC connected to the same network (as seen below).

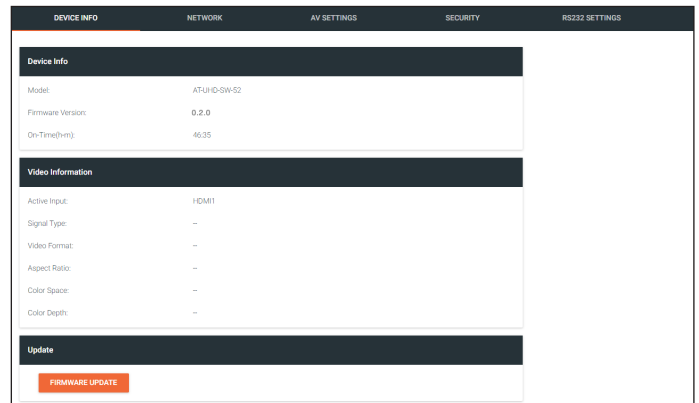
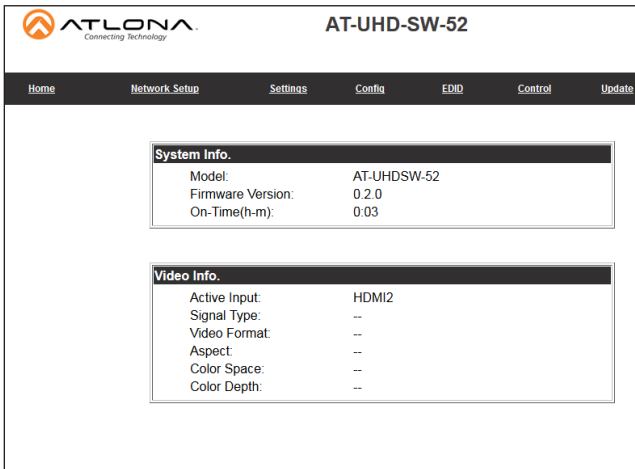
**GUI IP Address:** may be found using an IP scanner software (e.g. Advanced IP Scanner)

\*Atlona does not assume responsibility for damage caused by other programs installed into a computer, verify programs before installing\*



A login screen will appear (this is the same log in for admin and general users). For the first login to AMS, the username is "admin" and password is "admin". The login for the webGUI will be username "root" and password "Atlona". Both usernames and passwords are case-sensitive.

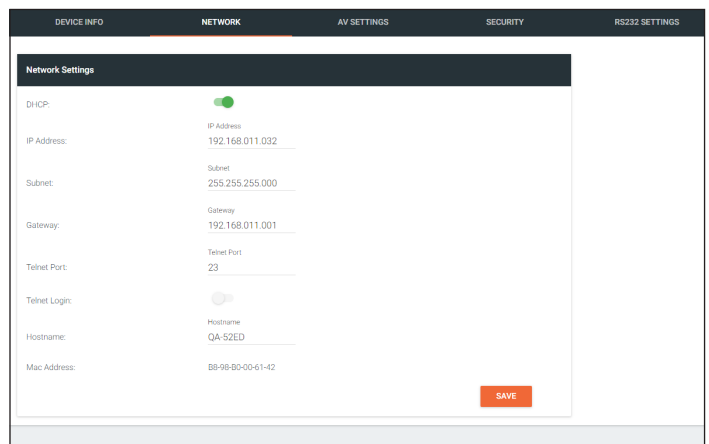
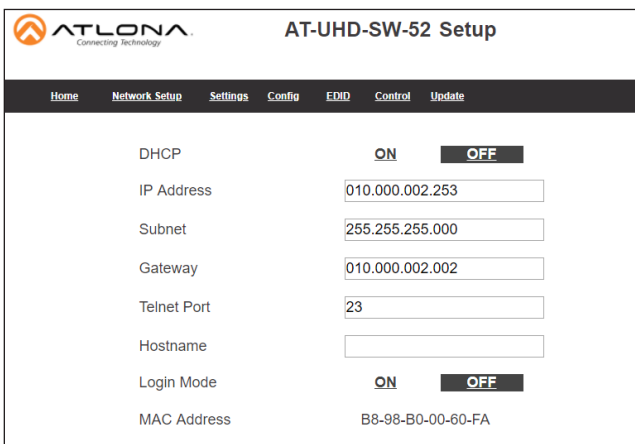
The Home screen tab will display the general system information. In AMS, this tab is called DEVICE INFO.



The Network Setup Page will allow the IP information to be changed. When a change is made the screen will grey and the ability to save or cancel will display at the bottom.

**Note:** When DHCP is on, the IP address cannot be configured. Turn DHCP off to enable IP configuration.

**Note:** For a stable connection when using a control system, it is best to set up a static IP. As you select an IP address, make certain no other devices on your network are using that IP address.



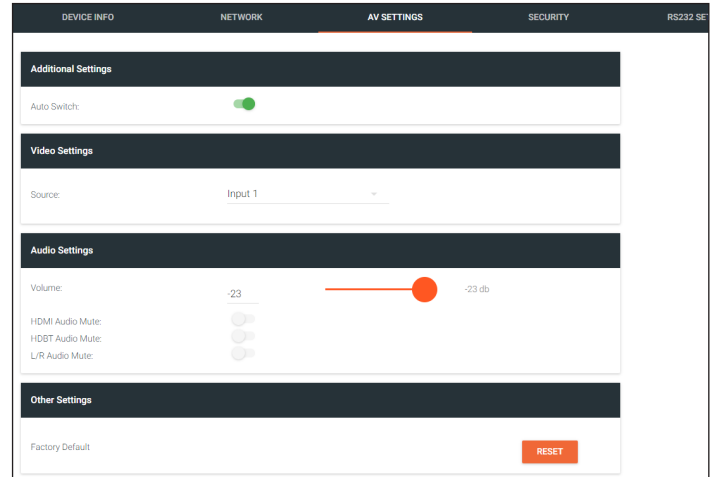
Login Mode has been added to provide a secure telnet login. Once Login Mode has been turned on a username and password will be required on all IP connections to the switcher.

**Note:** Login mode should be in off position when the UHD-SW-52 is used with control systems that do not support passwords. If your control system supports password protection, you can turn login mode on. The webGUI always requires a password.

**Note:** The username and password used in IP Login Mode will be the same login information as the webGUI.

Click the FIRMWARE UPDATE button to update the firmware on the unit. This feature is only available in AMS, under the DEVICE INFO page. To update firmware using the webGUI, go to the Update page.





## System Settings

Auto Switch - Turn auto switching on/off. Default is off. In AMS, this feature can be found under Additional Settings.

## Video Settings

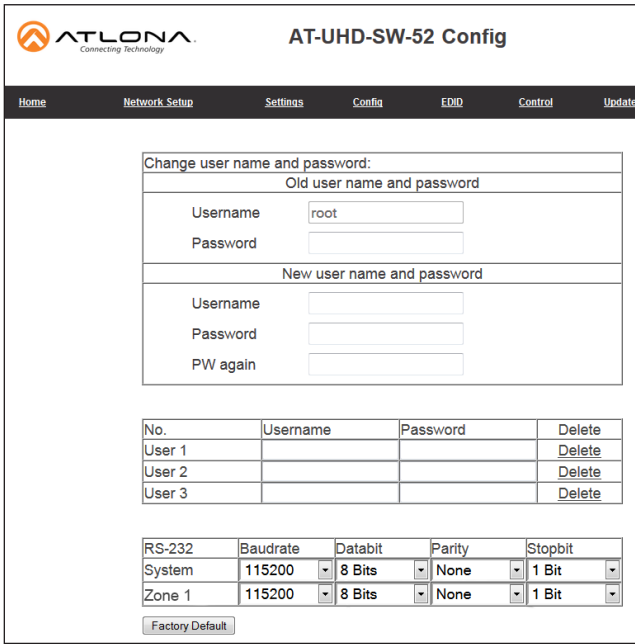
Source - Select one of the five inputs to be routed to the output.

## Audio Settings

Volume - Adjust output volume up or down, and/or muting.

## Factory Default

Click this button to reset the unit to factory-default settings. In AMS, this feature is found under Other Settings.



**AT-UHD-SW-52 Config**

Home Network Setup Settings Config EDID Control Update

Change user name and password:

Old user name and password

Username:

Password:

New user name and password

Username:

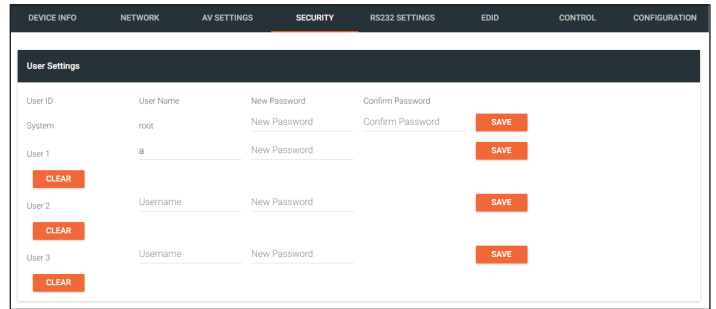
Password:

PW again:

No.	Username	Password	Delete
User 1			Delete
User 2			Delete
User 3			Delete

RS-232	Baudrate	Databit	Parity	Stopbit
System	115200	8 Bits	None	1 Bit
Zone 1	115200	8 Bits	None	1 Bit

Factory Default



DEVICE INFO NETWORK AV SETTINGS SECURITY RS232 SETTINGS EDID CONTROL CONFIGURATION

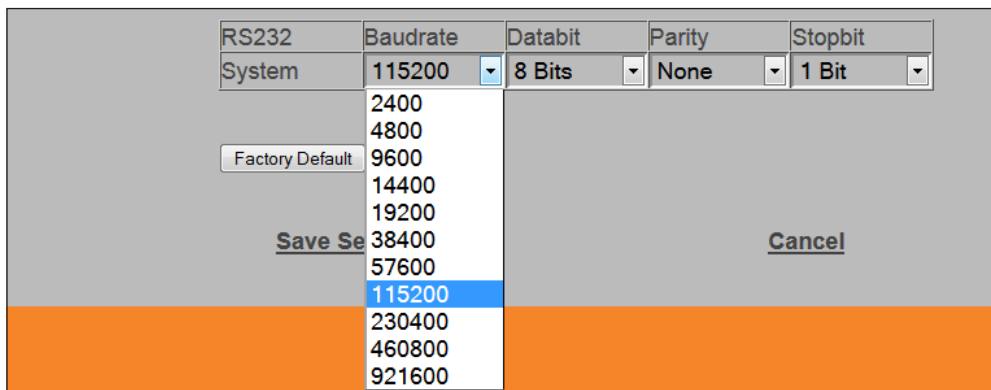
User Settings

User ID	User Name	New Password	Confirm Password	
System	root	New Password	Confirm Password	SAVE
User 1	a	New Password		SAVE
				CLEAR
User 2	Username	New Password		SAVE
				CLEAR
User 3	Username	New Password		SAVE
				CLEAR

The Config Page will allow the admin password to be changed, users to be added, and the RS-232 ports to be configured. Under AMS, managing usernames and passwords is handled under the SECURITY page. Note that RS-232 settings are set under the RS232 SETTINGS tab of AMS.

**Note:** User information will display for the admin only. Up to 3 users other than admin can be added.

**Note:** Only the admin password can be changed. The username will always remain "root". If the admin password is lost the system must be returned to factory settings and setup repeated.

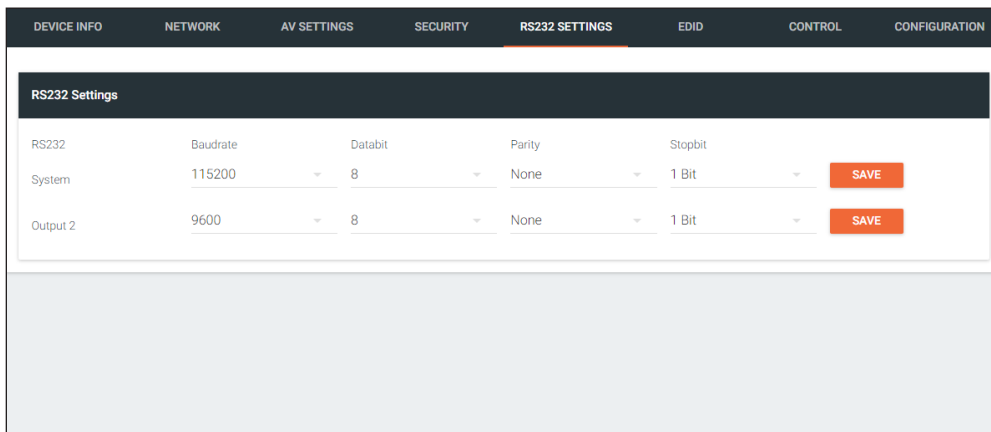


RS232	Baudrate	Databit	Parity	Stopbit
System	115200	8 Bits	None	1 Bit

Factory Default

Save Settings Cancel

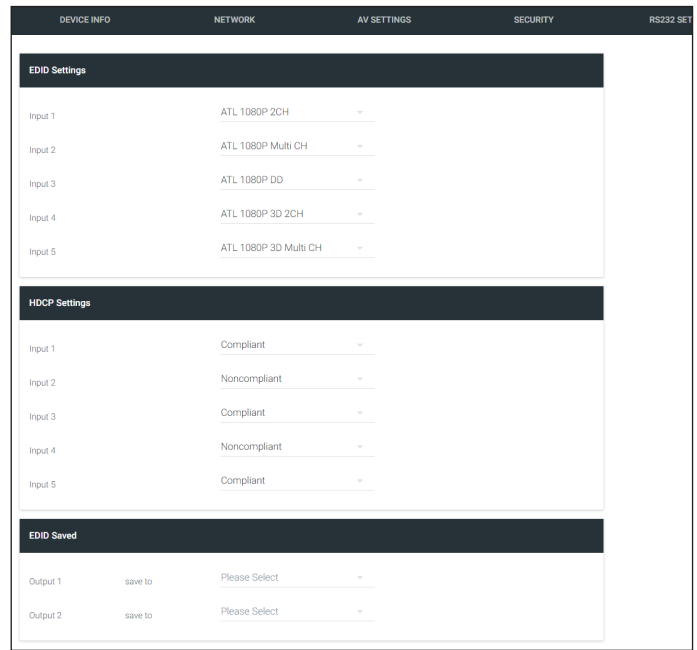
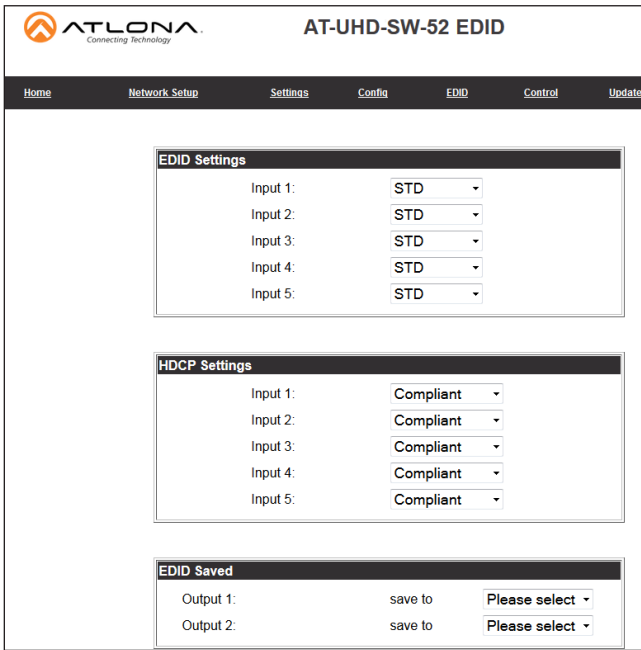
2400  
4800  
9600  
14400  
19200  
38400  
57600  
115200  
230400  
460800  
921600



DEVICE INFO NETWORK AV SETTINGS SECURITY RS232 SETTINGS EDID CONTROL CONFIGURATION

RS232 Settings

RS232	Baudrate	Databit	Parity	Stopbit	
System	115200	8	None	1 Bit	SAVE
Output 2	9600	8	None	1 Bit	SAVE



The EDID Page enables the input preferred timing to be selected and HDCP compliance reporting to be set.

**Note:** To ensure compatibility, it is best to set the EDID to match the native resolution of the connected display and the audio format of the connected sound system

**Note:** To use the analog audio output, a 2Ch EDID will need to be selected

### Internal EDIDs -

<b>STD</b> Sink (pass through)	<b>Int_1</b> 1080P 2Ch	<b>Int_2</b> 1080P MCh
<b>Int_3</b> 1080P DD	<b>Int_4</b> 1080P 3D 2Ch	<b>Int_5</b> 1080P 3D MCh
<b>Int_6</b> 1080P 3D DD	<b>Int_7</b> 720P 2CH	<b>Int_8</b> 720P DD
<b>Int_9</b> 1280x800 2Ch	<b>Int_10</b> 1366x768 2Ch	<b>Int_11</b> 1080P DVI
<b>Int_12</b> 1280x800 DVI	<b>Int_13</b> 3840x2160 2Ch	<b>Int_14</b> 3840x2160 MCh

**Note:** Internal EDIDs include audio EDIDs as well. 2Ch is two channel audio, MCh is multi-channel audio (including up to Dolby TrueHD or DTS-HD Master Audio), DD is Dolby Digital, and DVI does not include audio.

HDCP selection allows the HDCP reporting of the input to be changed between compliant and non-compliant

**Note:** This function is controllable through RS-232 and TCP/IP.

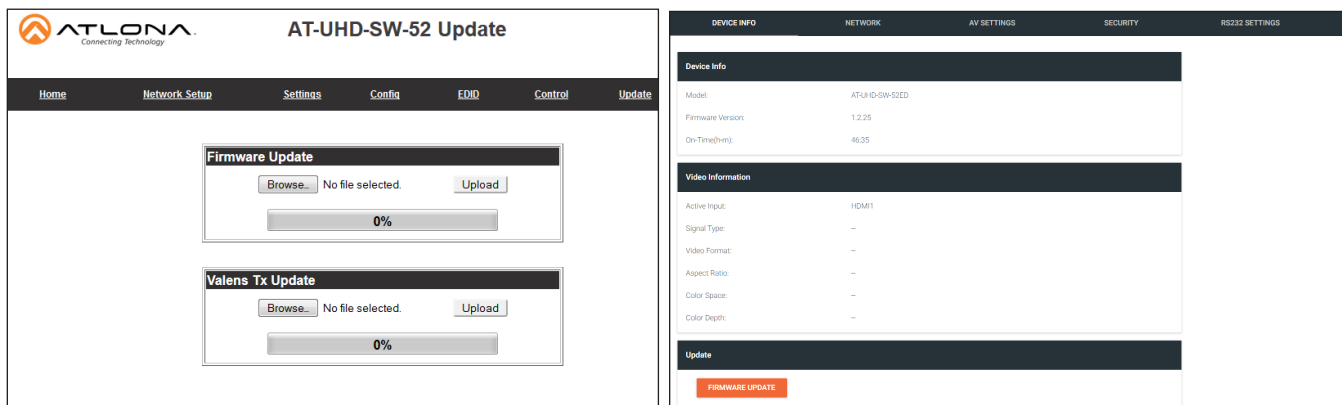
**Note:** UHD-SW-52 protects HDCP encoded content and will not pass HDCP content to a non-HDCP compliant device.

**Note:** Some devices flag all content as protected when connected to an HDCP compliant display. This prevents what should be non-protected content from reaching devices (e.g. teleconference system) through the UHD-SW-52.

**Note:** When HDCP reports as non-compliant, only user created content is transmitted. Protected content from all sources (e.g. Blu-ray, AppleTV, etc) is blocked.

### EDID Saved

Save the current output's EDID to memory. There are eight total EDID memories to save to.



For the best performance ensure the most current firmware is being used. Atlona frequently updates firmware to add features, improve compatibility, and fix bugs. If any issues are experienced with the switcher, check to make sure the most current firmware is installed.

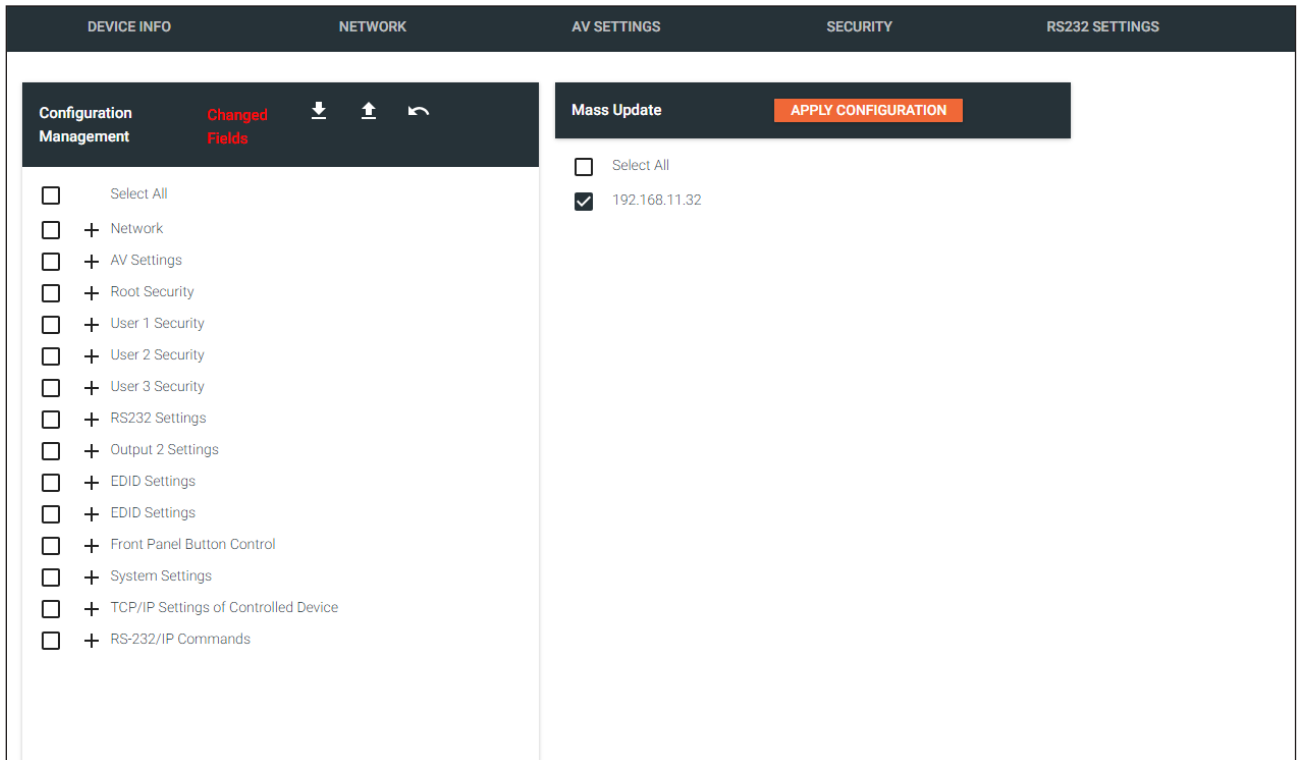
Download the latest firmware from <http://www.atlona.com/AT-UHD-SW-52> to a specific place on the computer, unzip the firmware file, then update the unit using the browse and upload buttons.

Click the browse button and select the firmware to be loaded from the PC. Once selected, press the upload button. The progress bar displays the progress of the firmware update.

The Valens (HDBaseT) port has a separate firmware. This firmware can be found at <http://www.atlona.com/AT-UHD-SW-52>.

Click the browse button and select the Valens (HDBaseT) file that was downloaded. Once selected, press the upload button, the progress bar displays the progress of the firmware update.


To update firmware under AMS, go to the DEVICE INFO page and click the FIRMWARE UPDATE button.




The CONFIGURATION page is unique to AMS, for the AT-UHD-SW-52. This page allows all or portions of the system configuration to be downloaded to a local file. Once a configuration file has been saved, it can then be uploaded, allowing multiple unit to be set to the same for configuration, if desired. Configuration files are stored in .json format.

Click the Select All checkbox, under Configuration Management, to select all settings. To deselect all settings, click the Select All checkbox again. To select individual options, click the appropriate checkboxes under Configuration Management.

Click the  button to save the configuration file.

To upload a configuration file, click the  button, select the file, then click the Open button on the Open dialog box.

Click the  button to revert all unsaved changes (in all screens) to the previous values.

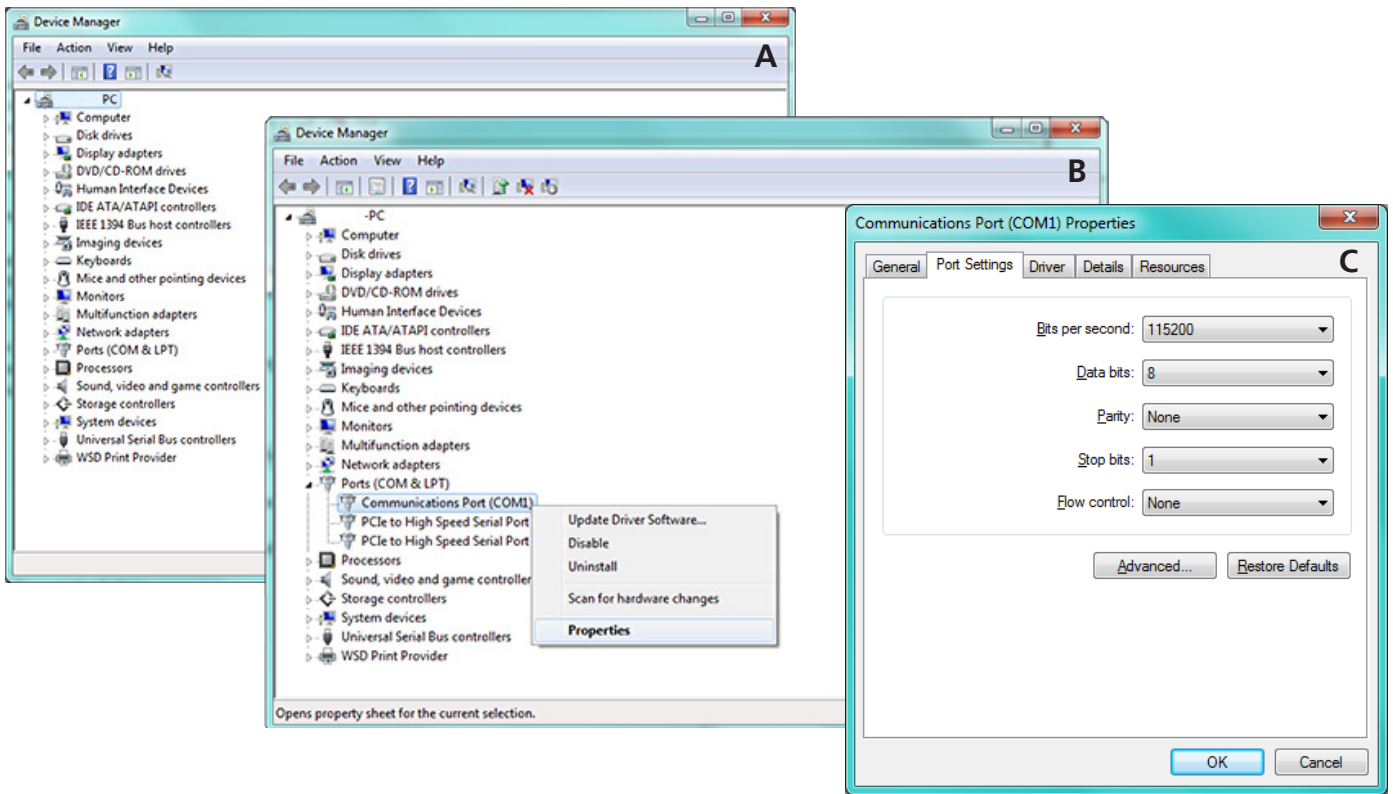
To apply the current configuration to all unit, recognized by AMS, click the Select All checkbox and then click the APPLY CONFIGURATION button. To select individual units, click the checkbox(s) next to the IP address of each unit, under Mass Update, then click the APPLY CONFIGURATION button.

## RS-232

### Hyperterminal

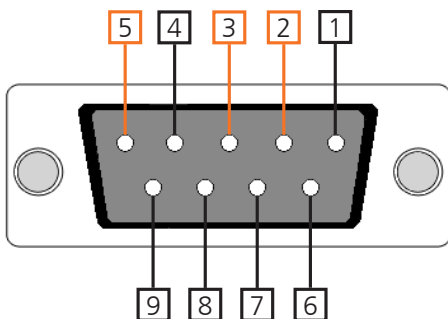
To set up the RS-232 hyperterminal the first thing needed is to find the RS-232 communications port under the computer's device manager. Once there right click the port and select properties. Under the properties menu select the port settings tab and update the menu to the switcher default:

Bits Per Second: 115200, Data Bits: 8, Parity: None, Stop Bits: 1 and Flow Control: None.



### Connection

RS-232 is connected through a 9-pin female D connector. The pins will have functions associated with them, some will be unassigned.



No.	Pin	Function
1	---	Not used
2	Tx	Transmit
3	Rx	Receive
4	---	Not used
5	Gnd	Ground
6	---	Not used
7	---	Not used
8	---	Not used
9	---	Not used

## Commands

The command codes are case sensitive, do not change capitalization, spacing, or lettering.

Command	Feedback	Description
PWON	PWON	Turns switcher on
PWOFF	PWOFF	Turns switcher off
PWSTA	PWSTA	Displays power status
VersionX Ex. Version OSD	VersionX Ex. Version x.x.xx	Displays the software versions: ex. VersionMCU firmware [MCU] OSD menu [OSD] DSP [DSP] FPGA [FPGA]
Type	AT-UHD-SW-51	Displays the model information
REBOOT	REBOOT	Reboots the AT-UHD-SW-52
Mreset	Mreset	Reset device to manufacture default
Lock	Lock	Locks the front panel buttons
Unlock	Unlock	Unlocks the front panel buttons
x3AVx1	x3AVx1	Switch inputs Ex. Switch output 2 to input 4= x4AVx2
Status	x2AVx1, x3AVx2	Displays what input is connected to the what output
x1\$ X	x1\$ on	Turns on/off output channel (X= on, off, sta) Ex. x2\$ off - Turns output 2 off
AutoSW X	AutoSW on	Turns auto switching on/off (X= on, off, sta)
IRON	IRON	Turns on the IR receiver window
IROFF	IROFF	Turns off the IR receiver window
EDIDCopyX memY Ex. EDIDCopy1 mem2	EDIDCopyX memY Ex. EDIDCopy1 mem2	Save the EDID of output X (1 or 2) to memory Y (1-8) Ex. Copy EDID of output 2 to memory 5 = EDIDCopy2 mem5
EDIDMSetX default	EDIDMSetX default	Set the EDID of the input to the default EDID
EDIDMSetX saveY	EDIDMSetX saveY	Set the EDID of an input to the previously saved EDID memory Ex. EDIDMset3 save1 - sets input 3 to EDID memory 1
EDIDMSetX intY	EDIDMSetX intY	Sets the EDID of an input to one of the internal EDIDs Ex. EDIDMset2 int3 - Sets input 3 to internal EDID 3
HDCPSetX Y Ex. HDCPSet1 on	HDCPSetX Y Ex. HDCPSet1 on	Set HDCP reporting mode of the HDMI input (X= 1-5)(Y= on, off, sta) Ex. Input 3 to report HDCP non-compliant = HDCPSet3 off

Each command or feedback is terminated with a carriage return.

**Note:** If the command fails or is incorrect the feedback is "Command FAILED"

### [Y] preferred timing -

<b>STD</b> Sink (pass through)	<b>1</b>	1080P 2Ch	<b>2</b>	1080P MCh
<b>3</b> 1080P DD	<b>4</b>	1080P 3D 2Ch	<b>5</b>	1080P 3D MCh
<b>6</b> 1080P 3D DD	<b>7</b>	720P 2CH	<b>8</b>	720P DD
<b>9</b> 1280x800 2Ch	<b>10</b>	1366x768 2Ch	<b>11</b>	1080P DVI
<b>12</b> 1280x800 DVI	<b>13</b>	3840x2160 2Ch	<b>14</b>	3840x2160 MCh

**Note:** Preferred timings include audio EDIDs as well. 2Ch is two channel audio, MCh is multi-channel audio (including up to Dolby TrueHD or DTS-HD Master Audio), DD is Dolby Digital, and DVI does not include audio.

Command	Feedback	Description
AudioOutX Y	AudioOutX on	Turns the HDMI audio of each output (X= 1, 2) on/off (Y= on, off, sta) Ex. Turn Output 2 HDMI audio off = AudioOut2 off
ARC X	ARC on	Turns on/off ARC (X= on, off, sta)
VOUT1 +	VOUT1 XX	Increases volume output by 1
VOUT1 -	VOUT1 XX	Decreases volume output by 1
VOUT1 YY Ex. VOUT1 -60	VOUT1 XX Ex. VOUT1 -60	Set volume output to a specific value (XX= -80 to 6)
VOUT1 sta	VOUT1 YY	Displays current volume output
VOUTMute1 X	VOUTMute1 X	Mute or unmute the output volume (X= on, off, sta)

**Note:** Volume output is mirrored per HDMI port. Adjusting output 1 will also adjust output 2.

## ***IP Commands***

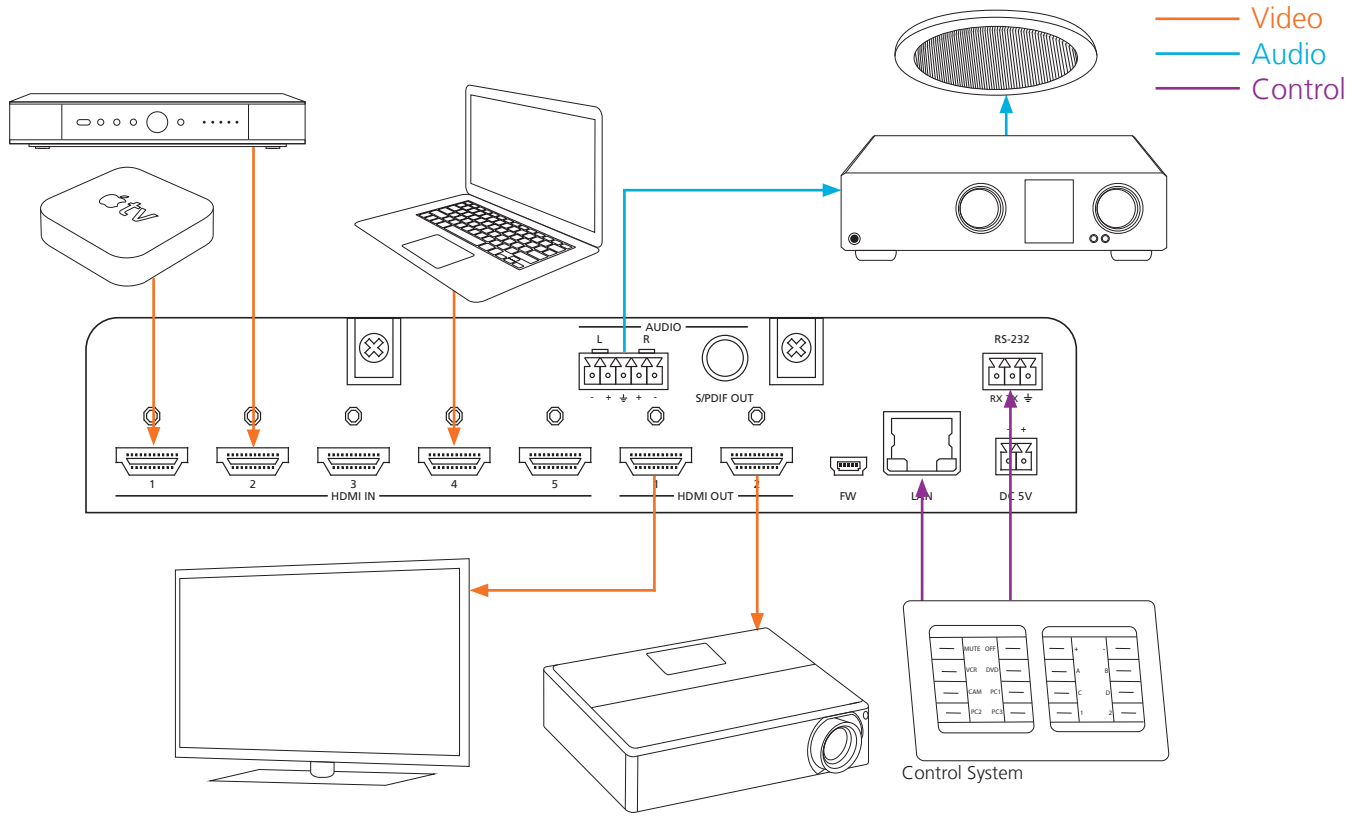
Command	Feedback	Description
IPCFG	IP Addr : x.x.x.x Netmask : x.x.x.x Gateway : x.x.x.x IP Port : x	Displays IP address configuration
IPQuit	IPQuit	Logs out of TCP/IP Connection
IPAddUser X Y Ex. IPAddUser Atlona 1234	TCP/IP user was added	Adds a user for TCP/IP control X= user and Y= Password
IPAddUser	username password username password username password	Displays a list of users and passwords
IPDelUser X	TCP/IP user was deleted	Delete a user from TCP/IP X= username
IPDHCP X	IPDHCP X	Turns DHCP on or off X= on, off, sta
IPStatic X Y Z Ex. IPStatic 192.168.1.1 255.255.255.0 192.168.1.200	IPStatic X Y Z Ex. IPStatic 192.168.1.1 255.255.255.0 192.168.1.200	Sets static IP address IPStatic Address(X) Netmask(Y) Gateway(Z)
IPPort X	IPPort X	Set the TCP/IP Port
IPLogin X Ex. IPLogin off	IPLogin X Ex. IPLogin off	Enables IP Login X= on, off, sta
Broadcast X Ex. Broadcast on	Broadcast X Ex. Broadcast on	Sets broadcast mode on or off X= on, off, sta
InputBroadcast X Ex. InputBroadcast on	InputBroadcast X Ex. InputBroadcast on	Sets the input broadcast reporting status X= on, off, sta
InputStatus Ex. InputStatus	InputStatus Ex. InputStatus 11001	Displays the input status for each input 1 = active input, 0 = no source connection
InputStatusX Ex. InputStatusX	InputStatusX Y Ex. InputStatus2 1	Displays the input status for the specified input. X= input number, and Y is returned for the source status: Y=0 is no source connection, Y=1 is active input
IPTimeout XX Ex. IPTimeout 300	IPTimeout XX Ex. IPTimeout300	Determines amount of seconds of inactivity before TCP/IP disconnects

Each command or feedback is terminated with a carriage return.

**Note:** If the command fails or is incorrect the feedback is "Command FAILED"



## Connections and Installation



## Specifications

### Resolutions

Video	4096x2160@24/25/30Hz*, 3840x2160@24/25/30Hz* (UHD), 2048x1080p, 1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i	
VESA	2560x2048, 2560x1600, 2048x1536, 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 1024x768, 800x600, 640x480	
Colorspace	YUV, RGB	
Chroma Sub-sampling	4:4:4, 4:2:2, 4:2:0	
Color depth	8-bit, 10-bit, 12-bit	

### Audio

Formats - HDMI IN/OUT	PCM 2 Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio	
Formats - S/PDIF	PCM 2 Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus	
Format - captive screw	maximum analog output: balanced +18dBu @ 0dBfs, 2Ch PCM only	
Sample rate	32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz	

### Distance (per port)

HDMI @ 1080p	10 meters	30 feet
HDMI @ 4K	5 meters	15 feet

### Signal

Bandwidth	10.2 Gbps	
CEC	Compliant	
HDCP	Switchable - Complaint / Non-compliant	

### Temperature

Operating	0°C to 50°C	32°F to 122°F
Storage	-20°C to 60°C	-4°F to 140°F
Humidity	20 to 90% non-condensing	

### Power

Consumption	7.5W	
Idle Consumption	1.7W	
Supply	Input: AC 100~240V 50/60Hz Output: DC 5V/3.6A	

### Dimension

H x W x D	44 x 222.25 x 261 (mm)	1.73 x 8.75 x 10.28 (inch)
Rack size	1/2 rack, 1RU	

### Weight

Device	3.15 kg	1.44 lbs
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### Certification

Power Supply	CE, FCC, cULus, RCM	
Product	CE, FCC	

\*4096x2160@50/60Hz & 3840x2160@50/60Hz supported @ chroma subsampling 4:2:0 8-bit only

## Safety Information

### Safeguards



To reduce the risk of electric shock, do not expose this product to rain or moisture



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

### Precautions

FCC regulations state that any unauthorized changes or modifications to this equipment, not expressly approved by the manufacturer, could void the user's authority to operate this equipment.

Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product, or cause fires.

In the event of an electrostatic discharge this device may automatically turn off. If this occurs, unplug the device and plug it back in.

Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins or cord exit points from this product.

Avoid excessive humidity, sudden temperature changes or temperature extremes.

Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements, fish tanks, and swimming pools.

Use only accessories recommended by Atlona to avoid fire, shock, or other hazards.

Unplug the product before cleaning. Use a damp cloth for cleaning and not cleaning fluid or aerosols. Such products could enter the unit and cause damage, fire, or electric shock. Some substances may also mar the finish of the product.

Never open, remove unit panels, or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your product. Opening the product will void the warranty.

Do not attempt to service the unit. Disconnect the product and contact your authorized Atlona reseller or contact Atlona directly.

## Atlona, Inc. ("Atlona") Limited Product Warranty Policy

### Coverage

Atlona warrants its products will substantially perform to their published specifications and will be free from defects in materials and workmanship under normal use, conditions and service.

Under its Limited Product Warranty, Atlona, at its sole discretion, will either:

- A) repair or facilitate the repair of defective products within a reasonable period of time, restore products to their proper operating condition and return defective products free of any charge for necessary parts, labor and shipping
- OR**
- B) replace and return, free of charge, any defective products with direct replacement or with similar products deemed by Atlona to perform substantially the same function as the original products
- OR**
- C) refund the pro-rated value based on the remaining term of the warranty period, not to exceed MSRP, in cases where products are beyond repair and/or no direct or substantially similar replacement products exist.

Repair, replacement or refund of Atlona's products is the purchaser's exclusive remedy and Atlona's liability does not extend to any other damages, incidental, consequential or otherwise.

This Limited Product Warranty extends to the original end-user purchaser of Atlona's products and is non-transferrable to any subsequent purchaser(s) or owner(s) of these products.

### Coverage Periods

Atlona's Limited Product Warranty Period begins on the date of purchase by the end-purchaser. The date contained on the end-purchaser's sales or delivery receipt is the proof purchase date.

#### **Limited Product Warranty Terms – New Products**

- 10 years from proof of purchase date for hardware/electronics products purchased on or after June 1, 2013
- 3 years from proof of purchase date for hardware/electronics products purchased before June 1, 2013
- Lifetime Limited Product Warranty for all cable products

#### **Limited Product Warranty Terms – Refurbished (B-Stock) Products**

- 3 years from proof of purchase date for all Refurbished (B-Stock) hardware and electronic products purchased on or after June 1, 2013

### Remedy

Atlona recommends that end-purchasers contact their authorized Atlona dealer or reseller from whom they purchased their products. Atlona can also be contacted directly. Visit [www.atlona.com](http://www.atlona.com) for Atlona's contact information and hours of operation. Atlona requires that a dated sales or delivery receipt from an authorized dealer, reseller or end-purchaser is provided before Atlona extends its warranty services. Additionally, a return merchandise authorization (RMA) and/or case number, is required to be obtained from Atlona in advance of returns.

Atlona requires that products returned are properly packed, preferably in the original carton, for shipping. Cartons not bearing a return authorization or case number will be refused. Atlona, at its sole discretion, reserves the right to reject any products received without advanced authorization. Authorizations can be requested by calling 1-877-536-3976 (US toll free) or 1-408- 962-0515 (US/international) or via Atlona's website at [www.atlona.com](http://www.atlona.com).

### Exclusions

This Limited Product Warranty excludes:

- Damage, deterioration or malfunction caused by any alteration, modification, improper use, neglect, improper packing or shipping (such claims must be presented to the carrier), lightning, power surges, or other acts of nature.
- Damage, deterioration or malfunction resulting from the installation or removal of this product from any installation, any unauthorized tampering with this product, any repairs attempted by anyone unauthorized by Atlona to make such repairs, or any other cause which does not relate directly to a defect in materials and/or workmanship of this product.
- Equipment enclosures, cables, power supplies, batteries, LCD displays, and any accessories used in conjunction with the product(s).
- Products purchased from unauthorized distributors, dealers, resellers, auction websites and similar unauthorized channels of distribution.

### **Disclaimers**

This Limited Product Warranty does not imply that the electronic components contained within Atlona's products will not become obsolete nor does it imply Atlona products or their electronic components will remain compatible with any other current product, technology or any future products or technologies in which Atlona's products may be used in conjunction with. Atlona, at its sole discretion, reserves the right not to extend its warranty offering in instances arising outside its normal course of business including, but not limited to, damage inflicted to its products from acts of god.

### **Limitation on Liability**

The maximum liability of Atlona under this limited product warranty shall not exceed the original Atlona MSRP for its products. To the maximum extent permitted by law, Atlona is not responsible for the direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory. Some countries, districts or states do not allow the exclusion or limitation of relief, special, incidental, consequential or indirect damages, or the limitation of liability to specified amounts, so the above limitations or exclusions may not apply to you.

### **Exclusive Remedy**

To the maximum extent permitted by law, this limited product warranty and the remedies set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, express or implied. To the maximum extent permitted by law, Atlona specifically disclaims all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. If Atlona cannot lawfully disclaim or exclude implied warranties under applicable law, then all implied warranties covering its products including warranties of merchantability and fitness for a particular purpose, shall provide to its products under applicable law. If any product to which this limited warranty applies is a "Consumer Product" under the Magnuson-Moss Warranty Act (15 U.S.C.A. §2301, ET SEQ.) or other applicable law, the foregoing disclaimer of implied warranties shall not apply, and all implied warranties on its products, including warranties of merchantability and fitness for the particular purpose, shall apply as provided under applicable law.

### **Other Conditions**

Atlona's Limited Product Warranty offering gives legal rights, and other rights may apply and vary from country to country or state to state. This limited warranty is void if (i) the label bearing the serial number of products have been removed or defaced, (ii) products are not purchased from an authorized Atlona dealer or reseller. A comprehensive list of Atlona's authorized distributors, dealers and resellers can be found at [www.atlona.com](http://www.atlona.com).

## **Atlona Product Registration**

Thank you for purchasing this Atlona product. - We hope you enjoy it and will take an extra few moments to register your new purchase.

Registration creates an ownership record if your product is lost or stolen and helps ensure you'll receive notification of performance issues and firmware updates.

At Atlona, we respect and protect your privacy, assuring you that your registration information is completely secure. Atlona product registration is completely voluntary and failure to register will not diminish your limited warranty rights.

To register go to: <http://www.atlona.com/registration>