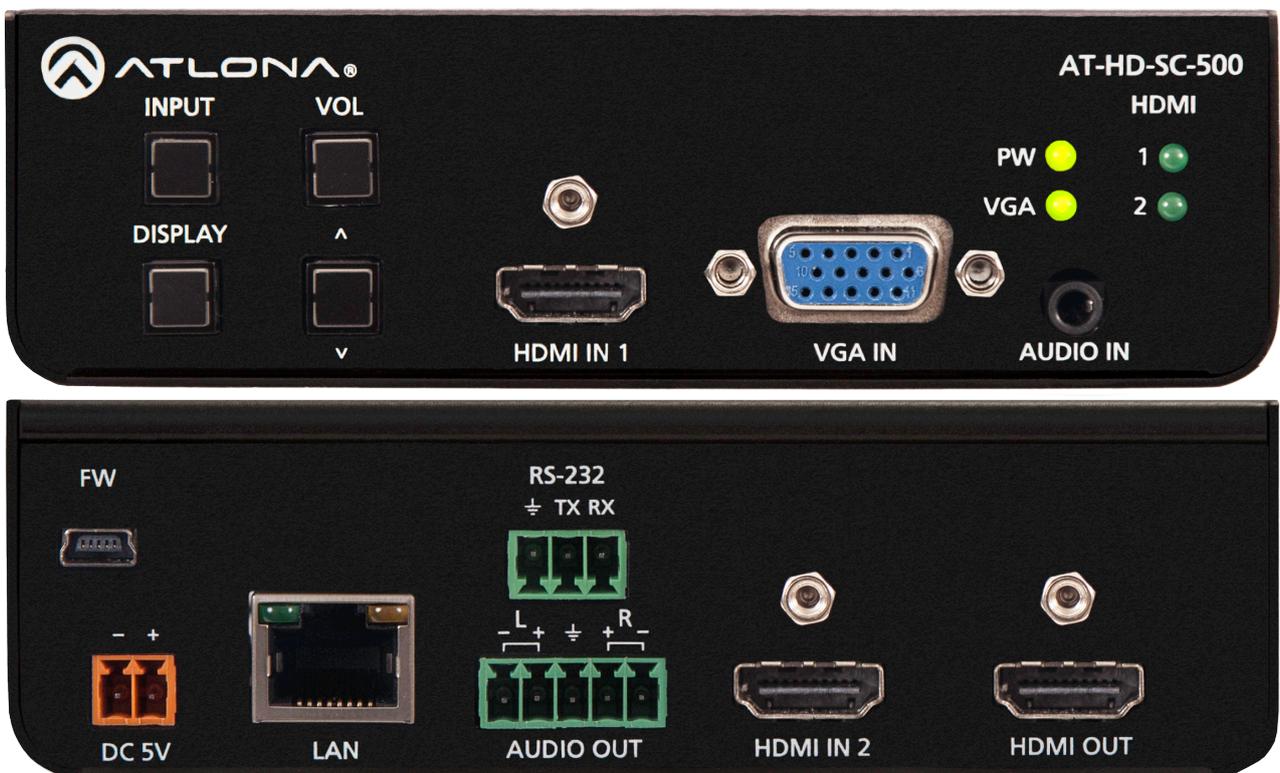


# Dual HDMI and VGA Switcher w/Scaler and Display Control

*AT-HD-SC-500*

User Manual



Please check <http://www.atlona.com/product/AT-HD-SC-500>  
for the most recent **firmware  
update** or **manual**.

## Table of Contents

1. Introduction	3
2. Requirements	3
3. Features	3
4. Panel Descriptions	
a. Front Panel	4
b. Back Panel	4
5. Analog Audio	5
6. WebGUI	6-15
7. RS-232	16-20
8. OSD	21-23
9. Connection and Installation	23
10. Specifications	24
11. Safety Information	25
12. Warranty	26-27
13. Atlona Product Registration	27

Revision B -

Firmware Version 1.1.0

Added HDMI audio control

- Select the audio source to be embedded on the HDMI port

Revision C -

Firmware Version 1.2.0

Added Display Control

**Revision E -**

Firmware Version 1.3.10

Added ability to switch between DHCP and static IP

Added analog audio input gain control

## Introduction

The dual HDMI and VGA switcher w/scaler provides a multisystem solution. Use the HD-SC-500 as: a standalone 3 in 1 out switcher for small systems, an analog to digital video converter for systems with no VGA ports, and a scaler for systems with displays that require specific resolutions. Supports scaling of video up to 1920x1200/1080p, VGA conversion and audio embedding and de-embedding, the HD-SC-500 has a function in almost any system.

## Package Contents

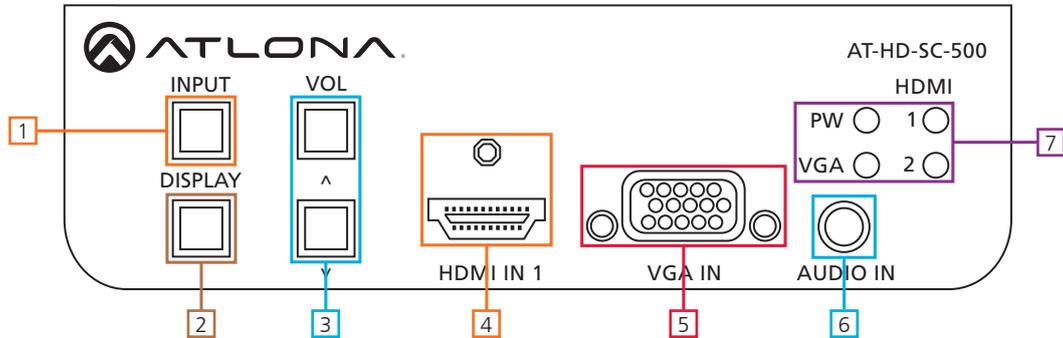
- 1 x AT-HD-SC-500
- 3 x Captive screw female connector (5 pin: audio, 3 pin: RS-232, 2 pin: power)
- 1 x Wall/table mount ears
- 1 x 5V Captive Screw Power Supply (AT-PW5V3.6A-CAPT)
- 1 x User manual

## Features

- Scales incoming signals up to 1920x1200
- 3 input, 1 output switcher
- Auto-switching (activated through RS-232 or webGUI)
- HDMI inputs support DVI and DisplayPort signals (with adaptors)
- Audio input for embedding audio onto video signals
- Control of brightness, contrast, saturation, hue, and sharpness
- Volume control
- Adjust treble and bass of audio output to ensure the best speaker performance
- Balanced, analog audio output for de-embedding audio to amplifiers or audio systems
- Control via RS-232, TCP/IP, webGUI, and OSD
- Ability to switch HDCP reporting between compliant and non-compliant
- Firmware upgradable for easy field service through USB or webGUI

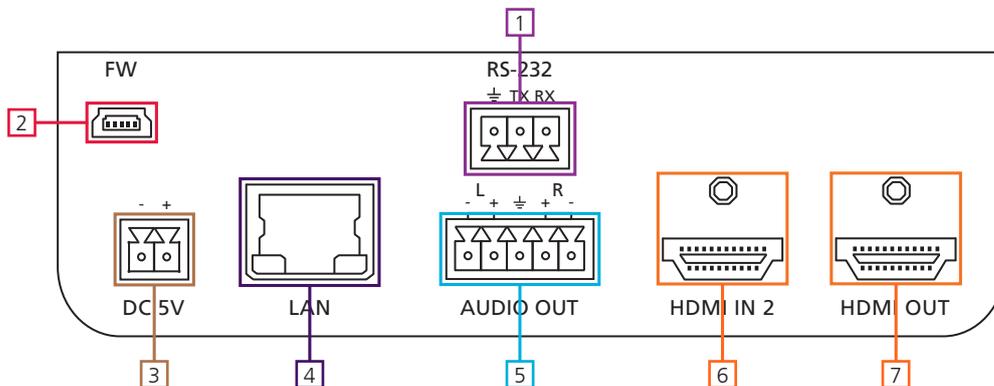
## Panel Description

### Front Panel



1. INPUT button - Press to switch between HDMI 1, HDMI 2, and VGA inputs
2. DISPLAY button - Press and hold for 5 seconds to bring up the OSD or select items
3. VOLUME - Adjusts the output volume, also used to navigate the OSD menu
4. HDMI IN 1 - Connect HDMI source here (DVI or DisplayPort compatible with adaptor)
5. VGA IN - Connect analog (VGA or RGB) video source here
6. AUDIO IN - Connect audio source here to be embedded with the input video
7. Status LEDs -
  - PW LED: Illuminates when receiving power
  - VGA, HDMI 1 & 2 LED: Illuminates to indicate the currently selected source

### Back Panel

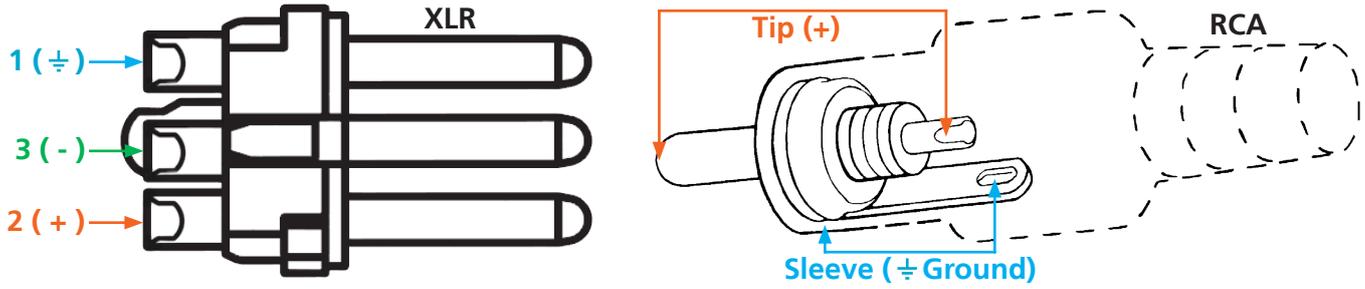


1. RS-232 - Connect control system or PC here to control the HD-SC-500
2. Firmware - Connect to a PC with a USB cable for firmware updating
3. DC 5V - Connect included power supply here
4. LAN - TCP/IP (Ethernet) port, connect to router, computer, or control device
5. AUDIO OUT - Audio output to audio amplifiers (**e.g.** AT-PA100-G2) or audio systems
6. HDMI IN 2 - Connect HDMI source here (DVI or DisplayPort compatible with adaptors)
7. HDMI OUT - Connect to display or extender (**e.g.** AT-UHD-EX-100CE-KIT)

## Analog Audio

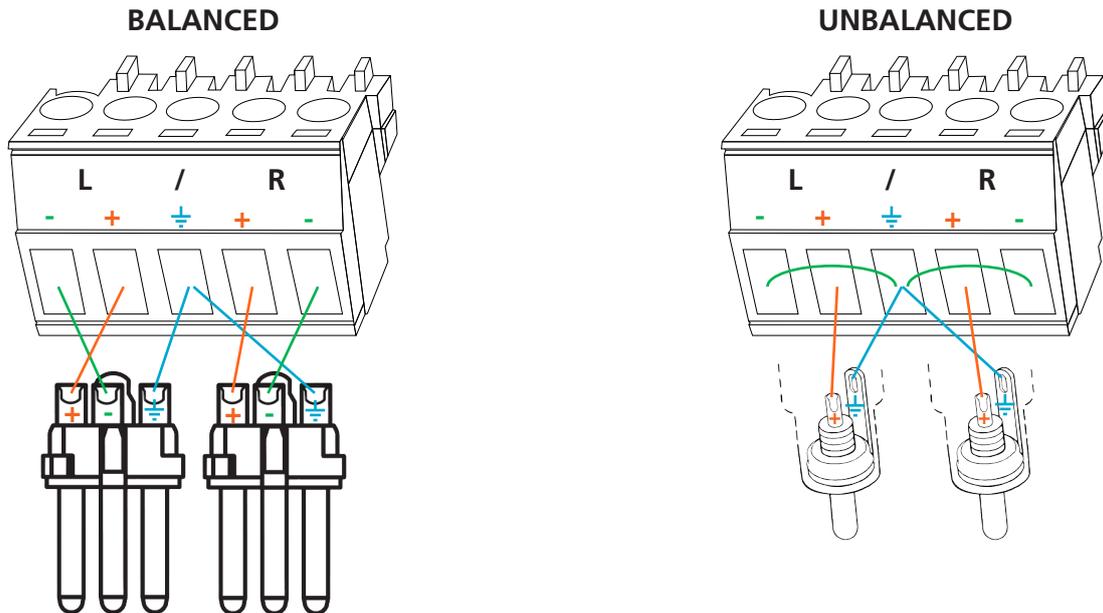
A captive screw analog audio connector is provided to ensure a more reliable and secure connection. The captive screw connector supports balanced and unbalanced audio output.

Balanced audio connections use two signal wires and a ground to minimize interference to audio signals. Unbalanced audio connections use one signal wire and a ground and are used if other system components don't support balanced signals.



**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

## Network Connections

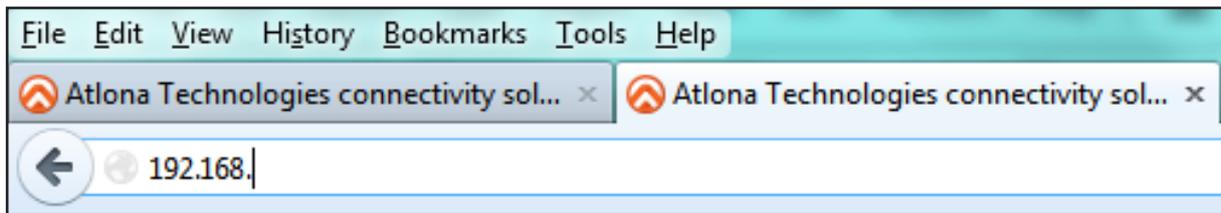
For convenience, the HD-SC-500 comes with DHCP on. This enables the switcher to be connected to a network without knowing available IP addresses. If your network is not compatible with dynamic IP addresses or if you are using the switcher with a TCP/IP control system, DHCP may be turned off and the IP address set using RS-232 commands or the webGUI.

### WebGUI

Atlona has created an easy to use webGUI for initial setup and later changes to the configuration of the HD-SC-500.

To begin, plug a LAN cable into the LAN port of the HD-SC-500 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).

**To find the switcher IP:** Select "Information" within the OSD menu or use RS-232 command "IPCFG".



**Important:** If any stability issues are experienced, disable any anti-virus or firewall that may interfere with network communication to the switcher. Once set up is done and the switcher webGUI is no longer being used, the firewall and anti-virus can be re-enabled.



### AT-HD-SC-500



**Login**

Username

Password

A login screen will appear (this is the same log in for admin and general users). For the first log in (and future admin changes) the username is "root" and password is "Atlona".

**Note:** Only the admin password can be changed (see page 15). The username will always remain "root".



### AT-HD-SC-500 Info



**Info**

Model Name : AT-HD-SC-500

Software Version : 1.3.9

Input Port : HDMI 1

Video Format : No Signal

Audio Type : --

The Info screen displays general system information.

**Input**

**Input Selection**  
HDMI 1

**VGA Adjust**  
Adjust

**Auto Switch**  
Auto Switch mode  ON

Fallback Port HDMI 1

Fallback Time(Sec) 10

The Video Page enables the input and output video settings to be adjusted to ensure quality and compatibility.

### Input

Input Selection - Choose between HDMI 1, HDMI 2, and VGA inputs

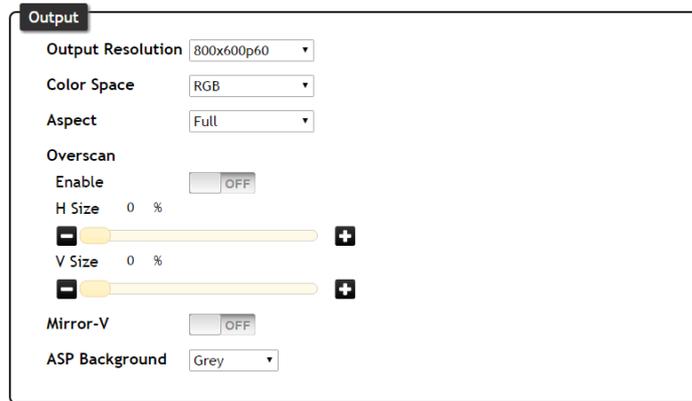
VGA Adjust - Centers the VGA video on the display

Auto-Switch -

ON/OFF switch: Toggle auto-switching on and off

Fallback Port: Select what input to switch to when the current signal is no longer received

Fallback Time(Sec): Set the amount of time (seconds) after receiving no signal before the input is switched to the fallback port



## Output

Output Resolution - Select the output resolution for the HDMI output (see resolution list below)

Color Space - Switch between RGB and YUV

Aspect - Adjusts the height and width of the image to fit the display (see aspect list below)

Overscan

Enable - Toggle on/off to enable horizontal and vertical sizing

H Size - Adjusts the width of the video

V Size - Adjusts the height of the video

Mirror-V - Flips the video upside down and backwards

ASP Background - Changes the horizontal/vertical bars on the picture between black and grey

## Output Resolution -

<b>0</b> 800x600p60	<b>6</b> 1600x900p60	<b>12</b> 1280x720p30	<b>18</b> 1920x1080i60	<b>24</b> 1920x1080p50
<b>1</b> 1024x768p60	<b>7</b> 1600x1200p60	<b>13</b> 1280x720p50	<b>19</b> 1920x1080p23	<b>25</b> 1920x1080p59
<b>2</b> 1280x800p60	<b>8</b> 1680x1050p60	<b>14</b> 1280x720p59	<b>20</b> 1920x1080p24	<b>26</b> 1920x1080p60
<b>3</b> 1280x1024p60	<b>9</b> 1920x1200pRB	<b>15</b> 1280x720p60	<b>21</b> 1920x1080p25	<b>27</b> Native
<b>4</b> 1366x768p60	<b>10</b> 1280x720p25	<b>16</b> 1920x1080i50	<b>22</b> 1920x1080p29	
<b>5</b> 1400x1050p60	<b>11</b> 1280x720p29	<b>17</b> 1920x1080i59	<b>23</b> 1920x1080p30	

## Aspect Ratio -

Full - The image will fill the display

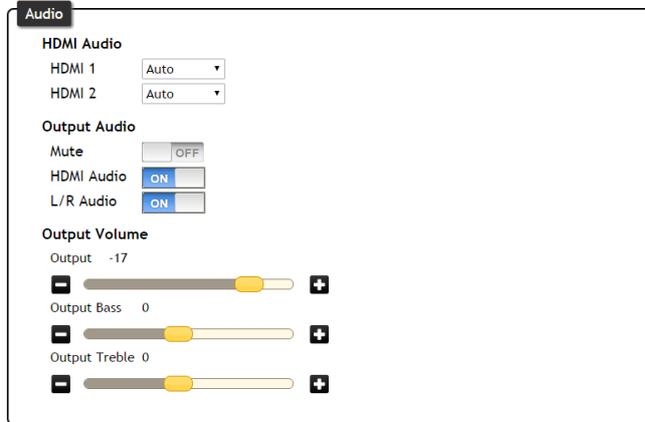
16:9 - The image will fit to a 16:9 display

16:10 - The image will fit to a 16:10 display

4:3 - The image will fit to a 4:3 display

Keep Ratio - The image will keep the aspect ratio of the signal sent by the source

**Note:** Incorrect aspect ratio will display with horizontal or vertical bars to fill the excess space



The Audio Page enables adjustments of audio source, volume, bass, and treble, providing a simple solution for audio control.

HDMI Audio (1 and 2) - Select the audio source for the individual HDMI inputs

Auto - Will detect if receiving DVI signals and take audio from analog audio input

Digital - Will use audio from the HDMI input port

Analog - Will use audio from the analog audio input port

Output Audio

Mute - Toggle the output audio of both the HDMI and analog audio output

HDMI Audio - Toggle the HDMI audio on and off

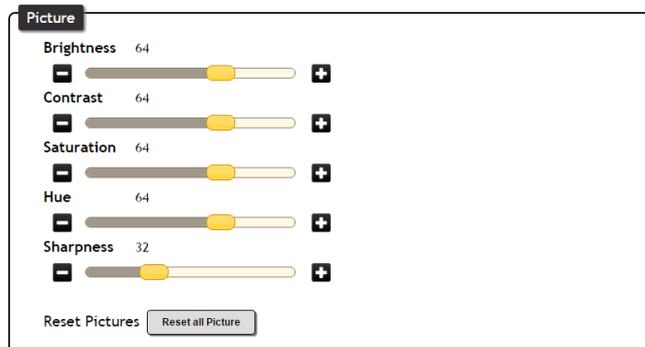
L/R Audio - Toggle the analog audio on and off

Output Volume - Master volume for both HDMI and analog audio out

Output - Adjust the output volume Options: -80 to 0

Output Bass - Adjust the bass of the output Options: -12 to 15

Output Treble - Adjust the treble of the output Options: -12 to 15



The Picture Page provides output adjustment for brightness, contrast, saturation, hue, and sharpness.

**Note:** Calibrate the display before using these settings to adjust the picture

Reset Pictures - Resets the picture settings of the unit

**EDID**

HDMI Prefer Timing

VGA Prefer Timing

HDMI1 HDCP

HDMI2 HDCP

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

**HDMI Prefer Timing:** Select the best resolution to ensure compatibility with the input & output

**VGA Prefer Timing:** Select the best resolution to ensure compatibility with the input & output

**HDMI 1 HDCP:** Switch the HDCP reporting between compliant or non-compliant

**HDMI 2 HDCP:** Switch the HDCP reporting between compliant or non-compliant

The HD-SC-500 has two HDCP reporting modes: compliant and non-compliant.

**Note:** HD-SC-500 does not alter the signal in any way

**Note:** HD-SC-500 will not pass HDCP compliant content to a non-HDCP display

Compliant -

Reports to the source it is connected to an HDCP compliant device

**Note:** Will pass all HDCP compliant and non-compliant source signals to an HDCP compliant display

Non-Compliant -

Reports to the source it is connected to an HDCP non-compliant device

**Note:** Some Apple products (and other PCs) will encrypt non-HDCP content, stopping non-HDCP compliant displays from receiving even personal files such as: PowerPoint, Excel, or Word files. Use this mode to pass non-HDCP content (**e.g.** to codecs or video streaming devices)

**Note:** Blu-Ray content, Apple TV, and other HDCP compliant source signals will not pass when set to non-compliant

**Preferred Timings -**

- |                    |                    |                    |                   |                   |
|--------------------|--------------------|--------------------|-------------------|-------------------|
| <b>0</b> 800x600   | <b>1</b> 1024x768  | <b>2</b> 1280x720  | <b>3</b> 1280x800 | <b>4</b> 1366x768 |
| <b>5</b> 1680x1050 | <b>6</b> 1920x1080 | <b>7</b> 1920x1200 |                   |                   |



The Display Page includes settings which enable display controls by the switcher. It provides a way to program display control and type of control commands (TCP/IP or RS-232) sent out.

### CEC Control:

#### Power -

On: Sends a command through the HDMI output to turn the connected display on

Off: Sends a command through the HDMI output to turn the connected display off

**Note:** Consumer Electronics Control (CEC): Atlona does not guarantee the function of CEC with all televisions. We can confirm proper operation with many current Samsung, Panasonic, and Sony TVs. Many manufacturers do not support the CEC "Off" command when sent from a source and older TVs use proprietary commands. Atlona only supports those TVs that follow CEC command structure from HDMI 1.2a and support the "off" command when issued by a source. We encourage any dealer to get evaluation product from Atlona prior to designing a system around this control technology or be prepared to use other methods to control their displays if Atlona CEC is not compatible with the installed displays.

System Settings	
Display Auto Power On	<input type="checkbox"/> DISABLED
Display Auto Power Off	<input type="checkbox"/> DISABLED
Power Button Lock	<input type="checkbox"/> DISABLED
Lamp Cool Down Timer(0-300 Sec.)	35 ▼
Display Warm Up Timer(0-300 Sec.)	35 ▼
Auto Power Off Timer(5-240 Sec.)	5 ▼
Control Type	RS-232 ▼
Feedback Verify	<input type="checkbox"/> OFF
Display Mode	DispSW AVon ▼
Volume/Mute	IP ▼

## System Settings

Display Auto Power On - When enabled, the unit will send the programmed (RS-232, IP, or CEC) command to the display to turn on after detecting an A/V signal

Display Auto Power Off - When enabled, the unit will send the programmed command to the display to turn off after not detecting an A/V signal

Power Button Lock - Locks/Unlocks front panel power button

Lamp Cool Down Timer (0-300) - Used with a projector whose lamp cannot be turned on for up to 5 minutes after being shut off. Match settings with lamp delay on projector

Display Warm Up Timer (0-300) - Sets the period of time after the display is turned on, that the power button will be locked

**Note:** LED will blink blue for the warm up timer period and then stay solid

**Note:** When timers are set to 0 seconds, they will disable the timer's functions

Auto Power Off Timer (5-240) - Sets the period of time between the loss of A/V signal and when the "Display Off" command is sent

**Note:** All functionality remains, only the HDBaseT output is turned off

Control Type - Select whether the display auto on/off commands are sent using RS-232, TCP/IP, or CEC

Feedback Verify

On: If receiving no feedback, the product will send the command up to 4 times

Off: The command will only be sent once, whether feedback is received or not

Display Mode -

DispSW AVon: Display switches on/off, source audio/video signal always on

DispSW AVSW: Display switches on/off, source audio/video signal switches on/off

AV SW: Display is always on, source audio/video signal switches on/off

Volume/Mute -

Audio Out: Volume and mute buttons will control volume level of the output

RS-232: Volume/Mute buttons will send the commands using RS-232 to compatible extenders and displays

IP: Volume/Mute buttons will send the commands over Ethernet using the LAN connection

**TCP/IP Settings of Controlled Device**

IP Mode:

IP Address:

Port:

Username:

Password:

**RS-232/IP commands**

**Display commands**

Send Mode:

**ON**

Set command:

Feedback:

**OFF**

Set command:

Feedback:

**Volume+**

Set command:

**Volume-**

Set command:

**Mute**

Set command:

Feedback:

### TCP/IP Settings of Controlled Device:

This option programs the IP parameters for display control. The static IP address set here should match the display's static IP address. To set or view the display's address, check the display's user manual.

- Note:** The switcher and the display must be on the same network and subnet for these commands to work
- Note:** Be sure the static IP address set for the display does not match any other device on the network

#### IP Mode -

Non-login: Does not require a username and password when using TCP/IP to control the display

Login: Requires a username and password to control the display through TCP/IP

#### IP Address & Port - Set to match the display's static IP

#### Username & Password - Required when in login mode

#### Save - Saves the IP settings for accessing the controlled device

### RS-232/IP Commands:

#### ASCII/Hex - Set which type of commands are sent to the display

#### On/Off/Volume+/Volume-/Mute - Enter the specific commands and feedback that will be sent/received when using any of the control options

**Note:** Individual commands will be found in the display's manual

#### End of line symbols - None, CR, LF, CR-LF, Space, STX, ETX, Null - Select the appropriate symbol from the drop down list. Carriage return, line feed, and carriage return with line feed are the most commonly used line terminators.

**Note:** Be sure to check the display's manual for the correct line terminator

#### Feedback - Feedback commands can be set by typing in the field or will auto fill after pressing the test button.

**Note:** If the command is incorrect, you will get a red 'Timeout!' message at the top of the RS-232 field

**RS-232**

**RS-232 Parameter Setting**

**Console**

Baud rate: 115200

Data bit: 8

Parity: None

Stop bit: 1

### RS-232 Parameter Setting

Console - Adjust the RS-232 parameters of the HD-SC-500 to make it compatible with control systems.

Save - Once the RS-232 parameters are changed, press the save button to make it live on the unit.

**OSD**

Position: Left-Top

Transparency: 1

Info. Timer: 5

Menu Timer: 11

Info. Display: Auto

Background: Magenta

The OSD Page adjusts the position, color, and settings of the OSD menu.

### OSD

Position - Adjusts where the OSD menu appears on the display

Options: Left-Top, Right-Top, Right-Bottom, Left-Bottom, Center

Transparency - Makes the OSD menu lighter or darker for easier viewing

Options: 0-15

Info. Timer - Changes the amount of time the source information appears on the display

Options: 5-100 (seconds)

Menu Timer - Changes how long the menu appears on the display

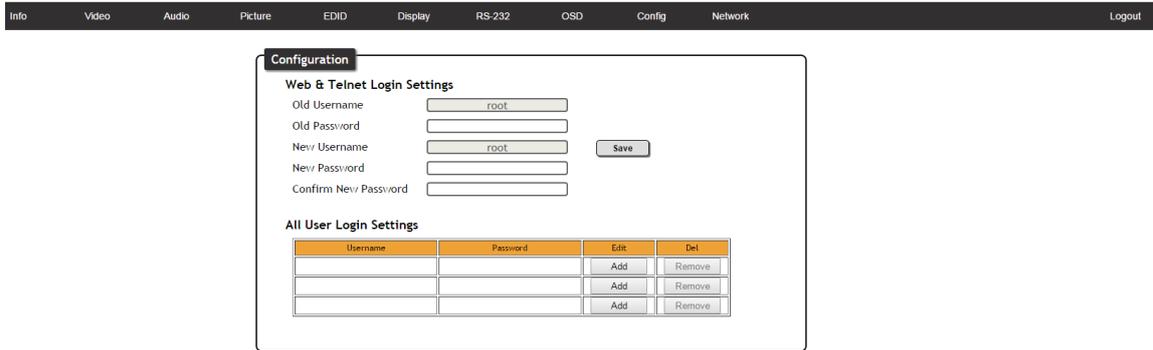
Options: 5-100 (seconds)

Info. Display - Toggle the resolution and source information on and off

Options: Off, On, Auto

Background - Change the background color for the OSD menu for better visibility

Options: Grey, Cyan, Magenta, Yellow



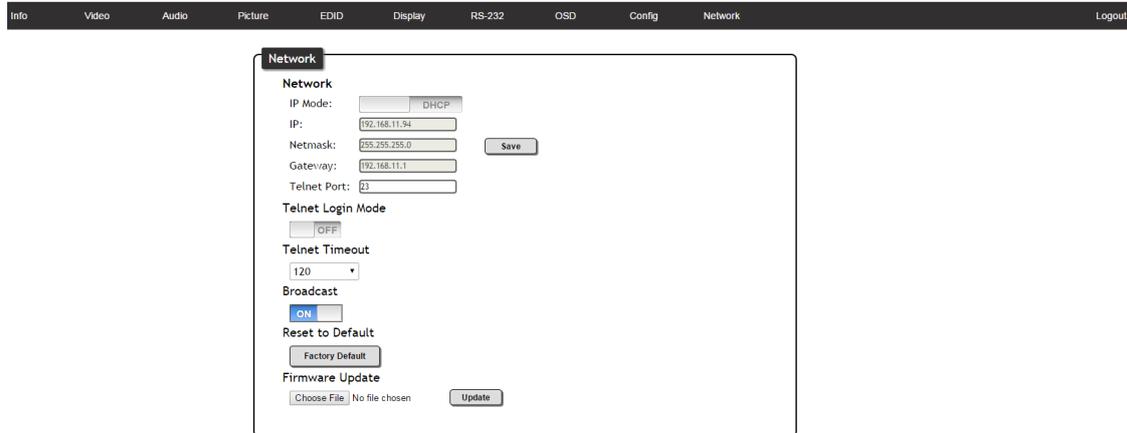
Username	Password	Edit	Del
		Add	Remove
		Add	Remove
		Add	Remove

The Configuration Page allows non-admin users to be added or the admin password to be changed.

Only 3 non-admin users can be added. Press the add button. A pop up screen will appear (see below). Fill in the username and password than press save changes. Users will not have the ability to access this page.

Admin password can also be changed. Be sure to write this information down as admin is the only profile allowed to add/remove users.

**Note:** Default username= "root" and password= "Atlona"



**Network:** IP address, netmask, gateway, and telnet port can be set to any settings compatible with your network. The Netmask and Gateway must match your existing network settings

IP Mode -

Static: Set a fixed IP address

**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

DHCP: Dynamic Host Configuration Protocol will automatically select an IP address on the network that is not already in use

Telnet Login Mode - Turn on/off - requires a password to adjust settings

Telnet Timeout - Set the auto log-off time between 1 and 3600 seconds

Broadcast - Turn on and off the feedback through all control ports

Reset to Default - Reset the device to factory settings

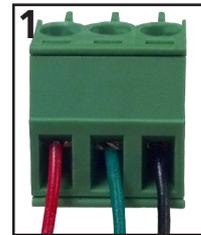
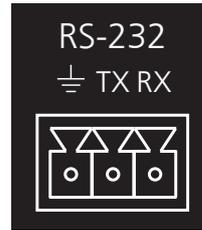
Firmware Update - Use this feature to find and load the MCU firmware to the switcher

**Note:** Firmware can be found and downloaded from the [atlona.com/product/AT-HD-SC-500/](http://atlona.com/product/AT-HD-SC-500/) page under the firmware tab.

## RS-232

### Connection

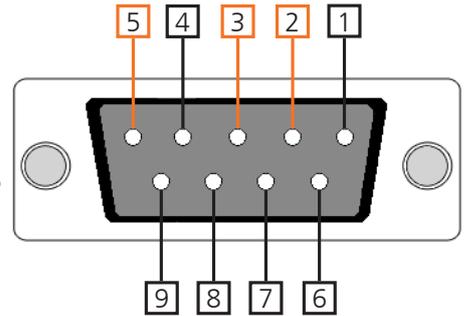
RS-232 pin out is determined by the RS-232 cable and connects as Rx (receiver), Tx (transmitter), and  $\perp$  (ground). (See picture 1)



Wire color differs by cable manufacturer.

RS-232 is often connected through a DB 9-pin to captive screw connector. The pins have functions associated with them, some will be unassigned.

**Note:** Typical DB9 connectors use pin 2 for TX, pin 3 for RX, and pin 5 for ground. On some devices functions of pins 2 and 3 are reversed.



### Set Up

To set up the RS-232 terminal (if not using 3rd party software) use the following steps:

1. Connect the HD-SC-500 to a PC using a DB9 to DB9 or DB9 to USB cable

**Note:** A gender changer and/or null modem may be needed between some connections

- a. Remove the DB9 connector, strip and connect the wires to the included captive screw connector (as explained above), then connect the captive screw connector to the switcher

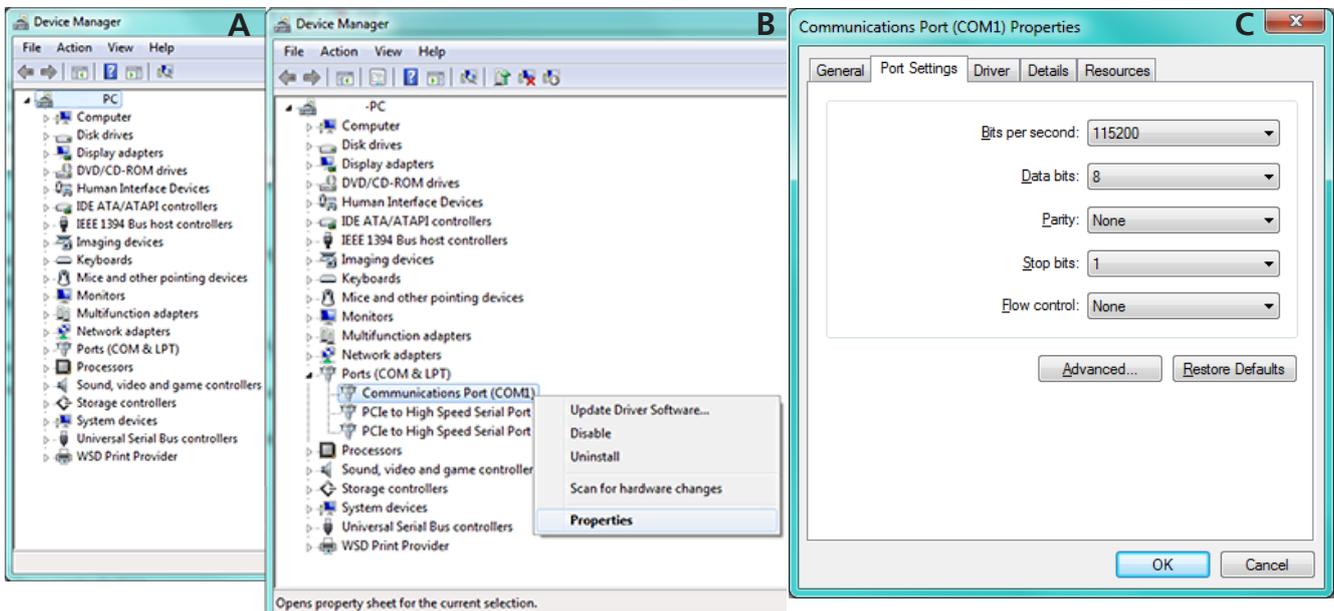
2. Go to the Device Manager folder (see picture A)

3. Find the HD-SC-500 COM port and right click with a mouse and select properties (see picture B)

**Note:** If unsure which COM port is the HD-SC-500, unplug the cable and plug it back in. It will disappear and reappear on the COM port list.

4. Under the properties menu select the port settings tab and update the menu to the **HD-SC-500 default settings of:** Bits Per Second: 115200, Data Bits: 8, Parity: None, Stop Bits: 1 and Flow Control: None. (see picture C)

Set up is done and any terminal program may be used to control the HD-SC-500 now.



Command	Feedback	Description
System sta	Model: AT-HD-SC-500 MAC Addr: b8-98-b0-00-00-19 Address Type: DHCP Netmask: 255.255.255.0 Gateway: 192.168.11.1 HTTP Port: 80 Telnet Port: 23 Firmware: 1.3.10 On/Up Time(dd HH:mm:ss): 2:22:19:4 Power Status: PWON	Displays the model number of the unit
Version	Version	Displays the firmware version
Mreset	Mreset	Reset the unit to factory settings and restarts the switcher
Lock	Lock	Deactivates the front panel buttons
Unlock	Unlock	Reactivates the front panel buttons
Input X e.g. Input HDMI 1	Input X e.g. Input HDMI 1	Select the input device. X= HDMI 1, HDMI 2, VGA, or sta e.g. Set the input to HDMI 1
x1\$ X e.g. x1\$ off	x1\$ X e.g. x1\$ off	Turn the output video on/off X=on, off e.g. Turns the output video off
ASwPrePort X e.g. ASwPrePort sta	ASwPrePort X e.g. ASwPrePort Prev	Sets the default fallback input for autoswitching X= HDMI1, HDMI2, VGA, Prev, sta e.g. Display the current fallback input
ASwOutTime X e.g. ASwOutTime 45	ASwOutTime X e.g. ASwOutTime 45	Sets period of time after loss of signal before auto switching to selected fallback input X=1-600
OSD X e.g. OSD 4	OSD X e.g. OSD 4	Adjusts the position of the OSD menu on the screen e.g. positions the OSD menu on the center of the screen
QOSD	QOSD	Exits the OSD menu
Up	Up	Scrolls up in the OSD menu
Down	Down	Scrolls down in the OSD menu
Select	Select	Selects options within the OSD menu
OSDBGRND X e.g. OSDBGRND 3	OSDBGRND X e.g. OSDBGRND 3	Sets the OSD menu background color x=0-3, sta e.g. Set the OSD background color to Yellow
OSDAAlpha X e.g. OSDAlpha 2	OSDAAlpha X e.g. OSDAlpha 2	Sets the OSD menu transparency x=0-15, sta e.g. Sets the OSD menu transparency to 2
INFOOSD X e.g. INFOOSD on	INFOOSD X e.g. INFOOSD on	Turns info menu on/off x=on, off, auto, sta e.g. Turns the info menu on
VOUTOSD X e.g. VOUTOSD off	VOUTOSD X e.g. VOUTOSD off	Turn the volume bar on the display on/off e.g. Product volume level will no longer display when changes are made
MENUTMR X e.g. MENUTMR 25	MENUTMR X e.g. MENUTMR 25	Set the OSD menu timeout x=5-100, sta e.g. Set the menu timeout to 25 seconds
INFOTMR X e.g. INFOTMR 15	INFOTMR X e.g. INFOTMR 15	Sets the timer for how long the info menu displays x=5-100, sta e.g. Sets the info menu to display for 15 seconds
AutoSW X e.g. AutoSW on	AutoSW X e.g. AutoSW on	Enable/Disable auto switching or display auto switching status e.g. Turns auto switching on

### OSD Position -

0 Upper Left      1 Top Right      2 Bottom Right      3 Bottom Left      4 Center

### OSD background color -

0 Grey      1 Cyan      2 Magenta      3 Yellow

Command	Feedback	Description
BRT XX e.g. BRT 30	BRT XX e.g. BRT 30	Set output brightness value e.g. Set output brightness to 30
CTRST XX e.g. CTRST 20	CTRST XX e.g. CTRST 20	Set output contrast value e.g. Set output contrast to 20
SATRT XX e.g. SATRT 65	SATRT XX e.g. SATRT 65	Set output saturation value e.g. Set output contrast to 65
HUE XX e.g. HUE 38	HUE XX e.g. HUE 38	Set output hue value e.g. Set output hue to 38
SHARP XX e.g. Sharp 11	Sharp XX e.g. Sharp 11	Set output sharpness value e.g. Set output sharpness to 11
VGAAuto	VGAAuto	Adjusts VGA picture to the center of the display - Only valid when VGA is selected
MirrorV X e.g. MirrorV on	MirrorV X e.g. MirrorV on	Turns the output video upside down and backwards x=on, off, sta
HDCPSet1 X e.g. HDCPSet1 on	HDCPSet1 X e.g. HDCPSet1 on	Set HDCP reporting for HDMI IN 1 x=on, off, sta e.g. Set HDCP reporting for HDMI IN to compliant
HDCPSet2 X e.g. HDCPSet2 off	HDCPSet2 X e.g. HDCPSet2 off	Set HDCP reporting for HDMI IN 1 x=on, off, sta e.g. Set HDCP reporting for HDMI IN to non-compliant
PTIMGVGA X e.g. PTIMGVGA 2	PTIMGVGA X e.g. PTIMGVGA 2	Set the preferred input timing for the VGA port x=0-6, sta e.g. Set the input timing for the VGA port to 1280x720
PTIMGHDMI X e.g. PTIMGHDMI 4	PTIMGHDMI X e.g. PTIMGHDMI 4	Set the preferred input timing for the HDMI ports x=0-6, sta e.g. Set the preferred input timing for the HDMI ports to 1366x768
VidOutRes X e.g. VidOutRes 22	VidOutRes X e.g. VidOutRes 22	Set the output resolution x=0-27, sta e.g. Set the output resolution to 1920x1080p29
Aspect X e.g. Aspect 2	Aspect X e.g. Aspect 2	Set the output aspect ratio x=0-4 e.g. Set the output aspect ratio to 16:10
ASPBGRND X e.g. ASPBGRND 1	ASPBGRND X e.g. ASPBGRND 1	Set the background color of the aspect ratio e.g. Set the aspect ratio background to black
Zoom X e.g. Zoom on	Zoom X e.g. Zoom on	Enable/disable overscan (zoom) x=on, off, sta e.g. Enables overscan
HZoom X e.g. HZoom 10	HZoom X e.g. HZoom 10	Adjusts the horizontal overscan x=0-50, sta e.g. Adjust the width of the signal to 10
VZoom X e.g. VZoom 12	VZoom X e.g. VZoom 12	Adjusts the vertical overscan x=0-50, sta e.g. Adjust the height of the signal to 12
SetCS X e.g. SetCS 1	SetCS X e.g. SetCS 1	Sets the color space x=0, 1, sta e.g. Sets the color space to YUV
PicReset	PicReset	Resets all picture settings to default

### HDCP reporting -

**on** compliant      **off** non-compliant

### Output Resolutions -

<b>0</b> 800x600p60	<b>6</b> 1600x900p60	<b>12</b> 1280x720p30	<b>18</b> 1920x1080i60	<b>24</b> 1920x1080p50
<b>1</b> 1024x768p60	<b>7</b> 1600x1200p60	<b>13</b> 1280x720p50	<b>19</b> 1920x1080p23	<b>25</b> 1920x1080p59
<b>2</b> 1280x800p60	<b>8</b> 1680x1050p60	<b>14</b> 1280x720p59	<b>20</b> 1920x1080p24	<b>26</b> 1920x1080p60
<b>3</b> 1280x1024p60	<b>9</b> 1920x1200pRB	<b>15</b> 1280x720p60	<b>21</b> 1920x1080p25	<b>27</b> Native
<b>4</b> 1366x768p60	<b>10</b> 1280x720p25	<b>16</b> 1920x1080i50	<b>22</b> 1920x1080p29	<b>sta</b>
<b>5</b> 1400x1050p60	<b>11</b> 1280x720p29	<b>17</b> 1920x1080i59	<b>23</b> 1920x1080p30	

### Preferred Timings -

<b>0</b> 800x600	<b>1</b> 1024x768	<b>2</b> 1280x720	<b>3</b> 1280x800	<b>4</b> 1366x768
<b>5</b> 1920x1080	<b>6</b> 1920x1200	<b>sta</b>		

### Aspect Ratio -

<b>0</b> Full	<b>1</b> 16:9	<b>2</b> 16:10	<b>3</b> 4:3	<b>4</b> Keep Ratio
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### Color Space -

<b>0</b> RGB	<b>1</b> YUV
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### Aspect Background -

<b>0</b> Grey	<b>1</b> Black
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Command	Feedback	Description
AudioSrcX Y e.g. AudioSrc1 ana	AudioSrcX Y e.g. AudioSrc1 ana	Set audio source for HDMI inputs X=1,2 Y=auto, dig, ana e.g. Set HDMI input 1 to receive audio from the analog input
HDMIAUD X e.g. HDMIAUD off	HDMIAUD X e.g. HDMIAUD off	Turns audio on/off for the HDMI output x=on, off, sta e.g. Turns the audio off for the HDMI output
LRAUD X e.g. LRAUD on	LRAUD X e.g. LRAUD on	Turns the audio on/off for the analog audio output e.g. Turns the analog audio output on
AnaGain X e.g. AnaGain 8	AnaGain X e.g. AnaGain 8	Set the analog input gain X=1-16 e.g. Sets analog input gain to 8
VOUT1 + e.g. VOUT1 +	VOUT1 XX e.g. VOUT1 -5	Increase the volume output by 1 e.g. Increases the volume output by 1
VOUT1 - e.g. VOUT1 -	VOUT1 XX e.g. VOUT1 -20	Decrease the volume output by 1 e.g. Decreases the volume output by 1
VOUT1 X e.g. VOUT1 -10	VOUT1 X e.g. VOUT1 -10	Set the volume to a specific level from -80 to 0 e.g. Set the volume to -10
VOUTMute1 X e.g. VOUTMute1 on	VOUTMute1 X e.g. VOUTMute1 on	Mute/unmute all audio output x=on, off, sta e.g. Mute all audio output
Bass X e.g. Bass +	Bass X e.g. Bass 5	Adjusts the bass of the audio output x= +, -, sta, -12 to 15 e.g. Increases the bass by 1
Treble X e.g. Treble -5	Treble X e.g. Treble -5	Adjusts the treble of the audio output x= +, -, sta, -12 to 15 e.g. Sets the treble to -5
CMDFMT X e.g. CMDFMT hex	CMDFMT X e.g. CMDFMT hex	Set the command format X=ascii, hex, or sta e.g. Set the command format to hex
SetCmd X[Y] e.g. SetCmd on[PWR ON]	SetCmd X[Y] e.g. SetCmd on[PWR ON]	Sets the RS-232 or IP command for the selected button or function X= on, off, vol+, vol-, and mute Y= command e.g. Set the on command to send the command PWR ON
SetEnd X[Y] e.g. SetEnd off[CR-LF]	SetEnd X[Y] e.g. SetEnd off[CR-LF]	Sets the line termination for the chosen command X= on, off, vol+, vol-, mute, fbkon, fbkoff, fbkmute Y= None, CR, LF, CR-LF, Space, STX, ETX, and null e.g. Set the command off to have a carriage return and line feed
SetCmdFB X[Y] e.g. SetCmdFB on[PWRON]	SetCmdFB X[Y] e.g. SetCmdFB on[PWRON]	Set the feedback string for the sent command X=on, off, mute Y=Command
TrigCEC X e.g. TrigCEC on	TrigCEC X e.g. TrigCEC on	Triggers the stored CEC command to turn the display on and off X= on, off
TrigRS X e.g. TrigRS vol+	TrigRS X e.g. TrigRS vol+	Triggers the RS-232 command from RS-232 or IP X= on, off, vol+, vol-, and mute
TrigIP X e.g. TrigIP vol-	TrigIP X e.g. TrigIP vol-	Triggers the IP command from RS-232 or IP X= on, off, vol+, vol-, and mute
CtrlType X e.g. CtrlType rs-232	CtrlType X e.g. CtrlType rs-232	Sets the control type X= IP, RS232, CEC, sta e.g. Set the control type to RS-232
AutoDispOff X	AutoDispOff X	Enable or disable display auto off X= on, off, sta
AutoDispOn X	AutoDispOn X	Enable or disable display auto on X= on, off, sta
LampCool X e.g. LampCool 30	LampCool X e.g. LampCool 30	Set period of time after the display is turned off that the power command will not send X= 0-300, sta
DisWarmUp X e.g. DisWarmUp 50	DisWarmUp X e.g. DisWarmUp 50	Set period of time after the display is turned on that the power command will not send X= 0-300, sta
BTNVol X e.g. BTNVol sta	BTNVol X e.g. BTNVol sta	Set what type of command the audio buttons send X= AudOut, RS232, IP, or sta AudOut - Controls the volume of the unit
AutoPwrMode X e.g. AutoPwrMode AVSW	AutoPwrMode X e.g. AutoPwrMode AVSW	Set the display mode for auto power on and off X= DISPAVON, DISPAVSW, AVSW, sta
PWLock X e.g. PWLock sta	PWLock X e.g. PWLock on	Lock or unlock the display key X= on, off, sta
SetOff X e.g. SetOff 43	SetOff X e.g. SetOff 43	Set the time (seconds) before the product goes into standby X= 0-240, sta

Each command is terminated with a carriage return.

Feedback is terminated with a carriage return and line feed.

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

CSpara[W,X,Y,Z]	CSpara[115200,8,0,1]	Set RS232 parameter [W,X,Y,Z] is baudrate,data-length,parity,stop-bit
CliMode X <b>e.g.</b> CliMode non-login	CliMode X <b>e.g.</b> CliMode non-login	Sets the control device's IP mode X= sta, login, non-login <b>e.g.</b> Sets the IP mode to non-login
CliUser X <b>e.g.</b> CliUser	CliUser X <b>e.g.</b> CliUser admin	Sets the IP username for login X= username, (blank) <b>e.g.</b> Display the IP username by leaving x blank
CliPass X <b>e.g.</b> CliPass AtlonA	CliPass X <b>e.g.</b> CliPass AtlonA	Sets the IP password for login X= password, (blank) <b>e.g.</b> Set the IP password to AtlonA
CliIPAddr X <b>e.g.</b> CliIPAddr sta	CliIPAddr X <b>e.g.</b> CliIPAddr 192.168.0.23	Sets the IP address of the controlled device X= IP#, sta <b>e.g.</b> Display the IP address of the controlled device <b>Note:</b> DHCP must be turned off for this command to work
CliPort X <b>e.g.</b> CliPort 24	CliPort X <b>e.g.</b> CliPort 24	Sets the IP port of the controlled device X= port#, sta <b>e.g.</b> Set the IP port to 24

## 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.x.x	Displays IP address configuration
IPTimeout XX <b>e.g.</b> IPTimeout 120	IPTimeout XX <b>e.g.</b> IPTimeout 120	Determines amount of seconds of inactivity before TCP/IP disconnects
IPQuit	IPQuit	Logs out of TCP/IP
IPAddUser sta	TCP/IP username & password list: - user password - user password - user password	Will display a list of users
IPAddUser X Y	TCP/IP user was added	Add a user for TCP/IP control. X=User Y=Password <b>e.g.</b> IPAddUser Atlona 1234 (User=Atlona 1234=Password)
IPDelUser X	TCP/IP user was deleted	Delete a user from TCP/IP X=User (Ex. IPDelUser Atlona)
IPDHCP sta	IPDHCP sta <b>e.g.</b> IPDHCP on	Displays the status of DHCP
IPDHCP on	IPDHCP on	Turns DHCP on
IPDHCP off	IPDHCP off	Turns DHCP off
IPStatic X Y Z <b>e.g.</b> IPStatic 192.168.1.1 255.255.255.0 192.168.1.200	IPStatic X Y Z <b>e.g.</b> 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 (ex. IPPort 230)
IPLogin sta	IPLogin sta <b>e.g.</b> IPLogin on	Displays IPLogin status <b>e.g.</b> IPLogin is on
IPLogin on	IPLogin on	Enables IPLogin
IPLogin off	IPLogin off	Disables IPLogin
Broadcast sta	Broadcast sta	Displays broadcast mode status
Broadcast on	Broadcast on	Enables broadcast mode
Broadcast off	Broadcast off	Disables broadcast mode
UartPara W,X,Y,Z <b>e.g.</b> UartPara 115200,8,0,1	UartPara W,X,Y,Z <b>e.g.</b> UartPara 115200,8,0,1	Set UART parameters W=baud rate X=data length Y=parity Z=stop-bit <b>e.g.</b> Set the parameters to 115200, 8, 0, 1
UartPara sta	UartPara W,X,Y,Z	Displays UART parameters

Each command is terminated with a carriage return.  
Feedback is terminated with a carriage return and line feed.

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

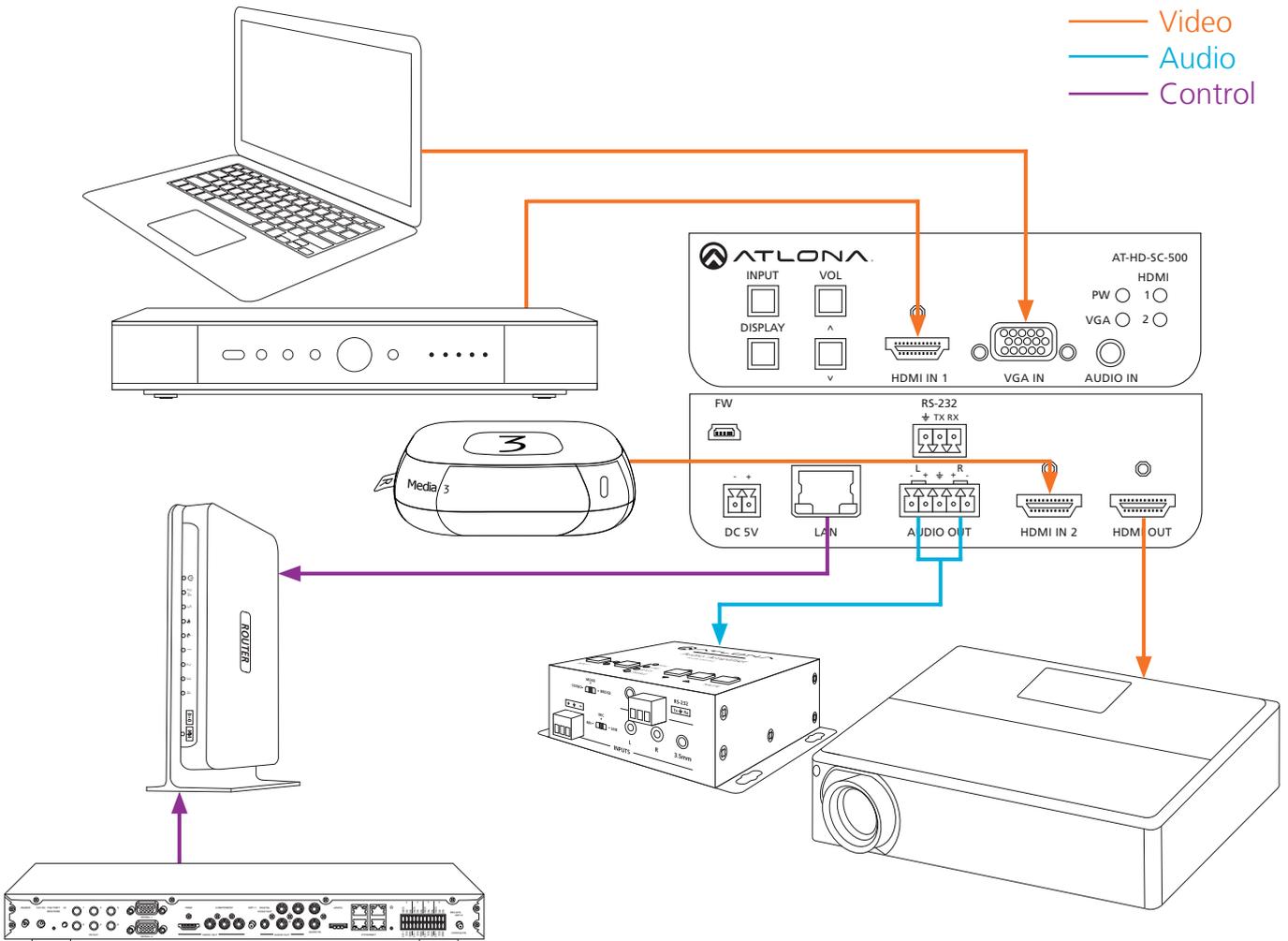
## OSD Menu

Input Selection	HDMI1		
	HDMI2		
	VGA		
	Menu Back		
Input Resolution	HDMI	800x600	
		1024x768	
		1280x720	
		1280x800	
		1366x768	
		1920x1080	
		1920x1200	
	VGA	800x600	
		1024x768	
		1280x720	
		1280x800	
		1366x768	
		1920x1080	
		1920x1200	
Menu Back			
Output Resolution	Output Resolution 1 of 3	Output Resolution 2 of 3	Output Resolution 3 of 3
	800x600	720p30	1080p50
	1024x768	720p50	1080p59.94
	1280x800	720p59.94	1080p60
	1280x1024	720p60	NATIVE
	1366x768	1080i50	Menu Back
	1400x1050	1080i59.94	
	1600x900	1080i60	
	1600x1200	1080p23.98	
	1680x1050	1080p24	
	1920x1200	1080p25	
	720p25	1080p29.97	
	720p29.97	1080p30	
Picture Adjust	Brightness		0 to 100
	Contrast		0 to 100
	Saturation		0 to 100
	Hue		0 to 100
	Sharpness		0 to 100
	Picture Reset		
	Color Space		RGB
			YUV
Menu Back			
Aspect	Full		
	16:9 TV		
	16:10 TV		
	4:3 TV		
	Keep Ratio		
	Menu Back		
Overscan	Enable	No	
		Yes	H Size %      0 to 50
			V Size %      0 to 50

Audio	Audio On Off	On
		Off
	HDMI Audio	On
		Off
	L R Audio	On
		Off
	Treble	-12 to 15
	Bass	-12 to 15
	HDMI1 EBD. Aud	Auto
		Digital
		Analog
	HDMI2 EBD. Aud	Auto
		Digital
		Analog
Menu Back		
OSD	Position	Left-Top
		Right-Top
		Right-Bottom
		Left-Bottom
		Center
	Transparency	0 to 15
	Info. Timer	5 to 100
	Menu Timer	5 to 100
	Info. Display	Auto
		On
		Off
	Background	Grey
		Cyan
		Magenta
Yellow		
Menu Back		
Control Settings	CEC	On
		Off
	BTN Disp. Sel	None
		RS-232
		IP
	BTN Vol. Sel	Audio Out
		RS-232
		IP
	Auto Disp. On	On
		Off
	Auto Disp. Off	On
		Off
	Display Key Lock	On
		Off
	Cool Down Tmr	0-300
	Auto Power Off	0-240
	Warm Up Timer	0-300
	Control Type	RS-232
		IP
CEC		
Feedback Vrfy.	On	
	Off	
Menu Back		

Others	In Auto Switch	On
		Off
	VGA Auto Adj.	
	HDMI1 HDCP	Compliant
		Non-Compliant
	HDMI2 HDCP	Compliant
		Non-Compliant
	Mirror-V	On
	Off	
ASP Background	Grey	
	Black	
	Menu Back	
Information	Source	HDMI
	Name	XXXX
	Product	XXXX
	Sink	HDMI XXX
	Model	XXXX XX
	Native1	XXXXxXXXX
	Native2	XXXXxXXXX
	IP Address	xxx.xxx.x.xx
F W Version	VX.X.XX	
	Menu Back	
System Reset		
Menu Exit		

### Connection and Installation



## Specifications

### Video Resolutions

IN	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 1920x1200, 1680x1050, 1600x1200, 1600x900, 1440x900, 1400x1050, 1366x768, 1360x768, 1280x1024, 1280x800, 1280x768, 1152x864, 1024x768, 800x600, 640x480
Preferred IN Resolution	800x600, 1024x768, 1280x720, 1280x800, 1366x768, 1920x1080, 1920x1200
OUT	1080p@23.98/24/25/29.97/30/50/59.94/60Hz, 1080i@50/59.94/60, 720p@25/29.97/30/50/59.94/60 800x600, 1024x768, 1280x800, 1280x1024, 1366x768, 1400x1050, 1600x900, 1600x1200, 1680x1050, 1920x1200
Color Space	YUV, RGB
Chroma Subsampling	4:4:4, 4:2:2
Color depth	8-bit, 10-bit, 12-bit

### Audio

Analog IN	3.5mm stereo jack, -10 dBu nominal input
Analog OUT	Balanced, +4 dBu nominal analog output. Max output +18 dBu (only from 2Ch PCM sources)
HDMI	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby Digital, DTS 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos
Sample Rate	32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz
Bit rate	up to 24-bit

### Distance

HDMI @ 1080p	up to 10 meters	up to 30 feet
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### Signal

Bandwidth	6.75 Gbps
CEC	
HDCP	Switchable - Compliant/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	10.4W
Supply	Input: AC100-240V ~ 50/60Hz 0.5A Output: DC 5V/3.6A

### Dimension

H x W x D	38 x 127 x 102 (mm)	1.5 x 5 x 4.02 (inch)
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### Weight

Device	0.27 kg	0.60 lbs
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### Certification

Product	CE, FCC
Power Supply	CE, FCC, RoHS, RCM, TUV

## Safety Information

### Safeguards



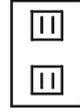
To reduce the risk of electric shock, do not expose this product to rain or moisture



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, Inc 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>