

4K / UHD Scaler for HDBaseT[™] and HDMI







Version Information

Version	Release Date	Notes
1	10/18	Initial release



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Registration only takes a few minutes and protects this product against theft or loss. In addition, you will receive notifications of product updates and firmware. Atlona product registration is voluntary and failure to register will not affect the product warranty.

To register your product, go to http://www.atlona.com/registration

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Operating Notes



IMPORTANT: Visit http://www.atlona.com/product/AT-HDVS-SC-RX for the latest firmware updates and User Manual.

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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:

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shipping.

OR

• 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

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

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Important Safety Information



CAUTION: TO REDUCT THE RISK OF ELECTRIC SHOCK DO NOT OPEN ENCLOSURE OR EXPOSE TO RAIN OR MOISTURE. NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the product.

The information bubble is intended to alert the user to helpful or optional operational instructions in the literature accompanying the product.

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this product near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install or place this product near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

- 9. Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the product.
- 11. Only use attachments/accessories specified by Atlona.
- 12. To reduce the risk of electric shock and/or damage to this product, never handle or touch this unit or power cord if your hands are wet or damp. Do not expose this product to rain or moisture.
- 13. Unplug this product during lightning storms or when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the product, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.



FCC Statement



FCC Compliance and Advisory Statement: This hardware device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference

to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for help. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulations.



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Introduction

The Atlona **AT-HDVS-SC-RX** is an HDBaseT receiver and 4K/UHD scaler with a local HDMI input. It receives HDBaseT for video output up to 4K/30 4:4:4, plus embedded audio, control, and Ethernet over distances up to 330 feet (100 meters). The HDVS-SC-RX features Atlona CrystalScale technology with high-quality downscaling and upscaling, as well as advanced image optimization capabilities plus internal test patterns for setup and troubleshooting. The HDVS-SC-RX is ideal for 4K presentation applications with HDVS-200 and Omega[™] Series switching transmitters, EX Series transmitters, Atlona AV switchers with HDBaseT outputs, and local HDMI sources, and the Gain[™] 60 amplifier. The HDVS-SC-RX and HDVS-200 or Omega Series transmitter together serve as a compact, fully automated AV system with the convenience of automatic input selection, display control, remote transmitter powering through Power over Ethernet (PoE), and 4K/UHD scaling.

Features

- HDBaseT[™] receiver with local HDMI® input
- Advanced 4K/UHD scaling featuring all-new, Atlona CrystalScale[™] technology
- Pristine-quality downscaling and upscaling
- Aspect ratio control
- Image optimization for flat-panel and LED tiled displays
- Advanced motion-adaptive deinterlacing for 1080i input signals
- Exclusive image-optimization features for flat panel and LED tiled displays
- Internal video test patterns for setup, calibration, and troubleshooting
- Automatic input selection and automatic display control using IP, RS-232, or CEC
- Contact closure for screen or display lift control
- Audio de-embedding

Package Contents

1 x AT-HDVS-SC-RX

- 1 x Captive screw connector, 2-pin
- 1 x Captive screw connector, 3-pin
- 2 x Captive screw connectors, 5-pin
- 1 x 24 V DC power supply
- 1 x Installation Guide



Panel Description



1 PWR

This LED indicator glows solid green when the unit is powered. When set to standby mode, this LED indicator glows solid amber.

2 LINK

This LED indicator displays the link status.

3 INPUT 1 / 2

These LED indicators display the currently selected input. The active input will be indicated by a solid green LED.

4 MENU

Press this button to display the built-in menu system.

5 ENTER

Press this button to confirm the highlighted selection in the menu system.

6 UP / DOWN

Press these buttons to highlight the desired options in the menu system.

7 INPUT

Press and release this button to toggle between **INPUT 1** and **INPUT 2** ports. The **INPUT 1** and **INPUT 2** LED indicators will toggle, based on the selected input.

8 LAN

Connect an Ethernet cable from this port to the Local Area Network.

9 FW

Connect a mini USB cable to this port to update the firmware.

10 HDBaseT Input

Connect an HDBaseT transmitter, such as the AT-HDVS-210-TX or AT-UHD-CLSO-840, to this port using an Ethernet cable.

11 HDMI Input

Connect a UHD/HD source to this port using an HDMI cable.

12 HDMI OUT

Connect an HDMI cable from this port to a display or other sink device.

13 RS-232

Connect to a control system such as Atlona Velocity[™].

14 AUDIO OUT

Connect the included 5-pin captive screw connector to this port. Use the included 5-pin captive screw block to connect to an audio amplifer, such as an AT-GAIN-60. Refer to Analog Audio Connector (page 10) for wiring information.

15 RELAY

Connect one of the included 3-pin captive screw connectors to this port to control screens, drapes, lights, or other devices. Refer to Relay Connector (page 11) for wiring information.

16 DC 24V

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



Installation

RS-232 Connector

The AT-HDVS-SC-RX provides RS-232 control between an automation system and an RS-232 device or display control. **RS-232 1** is for display control and **RS-232 2** is used to control the AT-HDVS-SC-RX. This step is optional.

- 1. Use wire strippers to remove a portion of the cable jacket.
- 2. Remove at least 3/16" (5 mm) from the insulation of the RX, TX, and GND wires.
- 3. Insert the TX, RX, and GND wires into correct terminal on the included captive screw connector.



Analog Audio Connector

The **AUDIO OUT** connector on the AT-HDVS-SC-RX provides de-embedded line-level output to an audio amplifier or other audio device, using the included 5-pin captive screw connector. Balanced and unbalanced audio is supported.

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



Balanced Audio using XLR Connectors



Unbalanced Audio using RCA Connectors





Relay Connector

The AT-HDVS-SC-RX 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-HDVS-SC-RX is powered-on or rebooted, C1 and C2 are set to the Normally Open (NO) state.







Connection Instructions

- 1. Connect an Ethernet cable from an HDBaseT-capable device to **INPUT 1** on the rear of the unit.
- 2. Connect an HDMI cable from the **INPUT 2** port to a UHD/HD source.
- 3. Connect an HDMI cable from **HDMI OUT** port to a UHD/HD display.
- 4. Connect an RS-232 control and/or display device to the RS-232 port using the included 5-pin captive screw connector. Each RS-232 port serves a different function.
 - **RS-232 1** Used to control an external display device.
 - RS-232 2 Used to control the AT-HDVS-SC-RX.
- 5. Connect an amplifier, such as the AT-GAIN-60, to the **AUDIO OUT** port using the included 5-pin captive screw connector.
- Connect the relay leads from the control motors of the projection screen, blinds, or curtains, of 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.
- 7. Connect an Ethernet cable from the LAN port to a network switch for set-up and control of the unit.
- 8. Connect the included power supply to the **DC 24V** power receptacle.
- 9. Connect the IEC power cable to an available 120 / 240 V AC outlet.

Refer to the tables below for recommended cabling when using Altona products with HDBaseT technology. The green bars indicate the signal quality when using each type of cable. Higher-quality signals are represented by more bars. *These table are for guidance, only. Performance may vary, based on environmental factors.*

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

Cable	Max. Distance @ 4K	Max. Distance @ 1080p
CAT5e / CAT6	230 feet (70 meters)	330 feet (100 meters)
CAT6a / CAT7	330 feet (100 meters)	330 feet (100 meters)



IMPORTANT: Stranded or patch cable is not recommended due to performance issues. Sheilded cables are strongly recommended to minimize signal noise and interference.



Installation





Installation

IP Configuration

The AT-HDVS-SC-RX is shipped with DHCP enabled. Once connected to a network, the DHCP server (if available), will automatically assign an IP address to the unit. Execute the arp -a command at the Windows command line or use an IP scanner to locate the AT-HDVS-SC-RX on the network.

If the AT-HDVS-SC-RX is unable to detect a DHCP server, within 15 seconds, then the unit will be placed in APAPI mode and assigned the following IP address and subnet mask:

- IP address 169.254.0.0
- Subnet mask 255.255.0.0

To manual change the IP settings or switch between DHCP and static IP mode, use one of the methods below

Using the OSD

- 1. Make sure the AT-HDVS-SC-RX is powered.
- 2. Connect an HDMI cable from the **HDMI OUT** port on the AT-HDVS-SC-RX to the HDMI input port on a display.
- 3. Press the **MENU** button on the front panel of the AT-HDVS-SC-RX to display the menu system.

The **Change IP address** should be highlighted. If not, press the **UP** or **DOWN** cursor buttons on the front panel to select this option.



- 5. Press the ENTER button. The IP Mode option will be highlighted.
- 6. Press the ENTER button to select the IP Mode option. The IP Mode option will be highlighted in green.

IP menu				
IP Mode	Dhcp			
Static Set				
Byte1 High				
Byte2				
Byte3				
Byte4 Low				
Back Exit				



- 7. Press the UP or DOWN cursor buttons on the front panel to toggle between Dhcp and Static.
- 8. Press the ENTER button to set the desired IP mode.

When set to **Static** mode, each byte of the IP address can be set: Press the **UP** or **DOWN** cursor buttons to highlight the desired field, then press **ENTER** to select the field. Press the **UP** or **DOWN** buttons to change the byte value. Press the **ENTER** button to confirm the value.

	IP menu	
IP Mode	Static	
Static Set	IP	
Byte1 High	192	
Byte2	168	
Byte3	1	
Byte4 Low	254	
Back		
Exit		

Setting the IP Address Using Commands

Use the IPStatic and IPDHCP commands to switch between DHCP and IP mode through RS-232 or Telnet. Refer to API documentation for more information. All commands and their arguments are case-sensitive.

• Setting static IP mode

- 1. Connect to the AT-HDVS-SC-RX using RS-232 or Telnet.
- 2. At the command line, execute the IPDHCP command using the off argument, as shown.

IPDHCP off

3. Execute the IPStatic command. This command requires three arguments: the desired IP address of the AT-HDVS-SC-RX, the subnet mask, and the gateway address. All arguments must be entered in dot-decimal notation. The following is an example:

```
IPStatic 192.168.1.112 255.255.255.0 192.168.1.1
```

- Setting DHCP mode
 - 1. Connect to the AT-HDVS-SC-RX using RS-232 or Telnet.
 - 2. At the command line, execute the IPDHCP command using the on argument, as shown. All characters are case-sensitive.

IPDHCP on

Once DHCP is enabled, the unit will be assigned an IP address by the DHCP server (if present).



Setting the IP Address using the Web GUI

The System page (page 32), in the web GUI, allows the AT-HDVS-SC-RX to use either DHCP or static IP mode. In order to access the web GUI, the IP address of the AT-HDVS-SC-RX must be known.

- 1. Open the desired web browser and enter the IP address of the AT-HDVS-SC-RX.
- 2. Log in, using the required credentials. The factory-default username and password are listed below:

Username: root Password: Atlona

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

ek Valo Audo Dapley H5.212 Contro Pydem CLINERAL	Shukay Sukas		Lopod
Hetwork Photos Photos Hetmade Photos Hetmade Photos Hetmade Photos Hetmade Photos Hetmade Photos Hetmade Photos Hetmade Photos Hetmade Photos Hetmade Photos Hetmade Hetma	Network		
Reset to Default Forward Updat Choose Fig. No file choose	IP Mode:	STATIC IP 10.0.1.120	
	Netmask:	255.255.255.0	Save
	Gateway: Telnet Port:	23	

- 4. Click the **IP Mode** toggle to switch between the **DHCP** and **STATIC IP** setting. When set to **STATIC IP**, the **IP**, **Netmask**, and **Gateway** fields can be modified.
- 5. Click the **Save** button to save the changes.



Basic Operation

Managing Users

The AT-HDVS-SC-RX allows the **admin** user to create, edit, and remove additional TCP/IP users. All users have the same level of access to control the AT-OME-TX21-WP-E. However, only the **admin** user is allowed to manage other users. Up to three additional users can be created.

Adding Users

- 1. Open the desired web browser and enter the IP address of the AT-HDVS-SC-RX.
- 2. Log in as the **admin** user with the required credentials. The factory-default username and password for the admin user are listed below:

Username: root Password: Atlona

3. Click Config in the menu bar.

Connecting Technology	AT-HDVS-SC-RX Config	
Info Video Audio Display RS-232	Config System GENERAL	Logout
	Configuration Web & Enclose Login Settings Old Username New Learnane Tool Configuration New Learnane Configuration Configuration New Learnane Tool Configuration All User Login Settings New Maximum Add New Maximum Add	

- 4. Click the **Add** button, under the **Edit** column.
- 5. Enter the desired username and password in the Username&Password Edit dialog box.

Username&Passwo	rd Edit X
Username Password	minion1
	Save Change Cancel

6. Click the **Save Change** button to commit changes or click the **Cancel** button to return to the **Config** page without adding the user.

Once created, the new user and the associated password will appear under the **All User Login Settings** section. To login with the new username, click **Logout** in the upper-right corner of the screen, then enter the login credentials for the user on the **Login** page.



Editing / Deleting Users

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

- 1. Open the desired web browser and enter the IP address of the AT-HDVS-SC-RX.
- 2. Log in as the **admin** user with the required credentials. The factory-default username and password for the admin user are listed below:

Username:	root
Password:	Atlona

	AT-HDVS-SC-RX Config
hdo Volko Audo Diegalaj (48.323	Yead Call Logd

Editing Users

- a. Click **Config** in the menu bar.
- b. Click the **Edit** button next to the user to be changed.
- c. Enter the new information for the user in the Username&Password Edit dialog box.
- d. Click the **Save Change** button to commit changes or click the **Cancel** button to return to the **Config** page without making changes.

Username&Passwo	ord Edit	X
Username Password	<u>minien2</u> 12345678	
	Save Change Cano	el

Deleting Users

a. Click the **Remove** button next to the user to be deleted.



The Web GUI

Accessing the Web GUI

The AT-HDVS-SC-RX includes a built-in web GUI. Atlona recommends that the web GUI be used to set up the AT-HDVS-SC-RX, as it provides intuitive management of all features.

The AT-HDVS-SC-RX is shipped with DHCP enabled. Once connected to a network, the DHCP server will automatically assign an IP address to the unit. Use an IP scanner to determine the IP address of the AT-HDVS-SC-RX. If a static IP address is desired, refer to IP Configuration (page 14). The default static IP address of the AT-HDVS-SC-RX is 192.168.1.254.

- 1. Launch a web browser.
- 2. In the address bar, type the IP address of the AT-HDVS-SC-RX.
- 3. The **Login** page will be displayed.

AT-HDVS-SC-RX Login
Legon Uurname Passerd Laine

- 4. Type root, using lower-case characters, in the Username field.
- 5. Type Atlona in the **Password** field. This is the default password and is case-sensitive. When the password is entered, it will be masked. The password can be changed, if desired. Refer to the Config page (page 31) for more information.
- 6. Click the Submit button or press the ENTER key on the keyboard.

Login		
Username	root	
Password	•••••	
	Submit	



Info page

After logging in, the **Info** page is the first page to be displayed. The **Info** page displays information such as the model name, software, and active input, and output video resolution.

	Ø			^ .	AT	-HDVS-SC-	-RX Info	
Info	Video	Audio	Display	RS-232	Config	System	GENERAL	Logout
							Info Model Name: ATHONS 5C-RX Software Vertice: 0.0.04 VALEB Vertice: 7.0.8 Active Input: Ipput 1 Video Format: 1920x1080pt0 TX Type: GENERAL	

Model Name

The model SKU of this product.

Software Version

The version of firmware that the AT-HDVS-SC-RX is running. Always make sure to check the AT-HDVS-SC-RX product page, on the Atlona web site, for the latest version of firmware.

VALENS Version

Displays the version of firmware used by the Valens chipset.

Active Input

The currently selected input on the AT-HDVS-SC-RX.

Video Format

Displays the output resolution on the **HDMI OUT** port.

ТХ Туре

The model of the connected PoE-compatible transmitter (TX) that is connected to the AT-HDVS-SC-RX.

Note that if the AT-HDVS-SC-RX is connected to a transmitter, then the model of the Atlona transmitter will be displayed in the menu bar, to the right of the HDBT menu. If no transmitter is connected, the text "GENERAL" will be displayed.



The Web GUI

Video page

	AT-HDVS-SC-RX Video
Info Video Audio Display RS-232	ig System GENERAL Logout
	Input Input 1 Native Input 1 Native Input 1 Input 1 Native Input 1 Input 1 ON Input 2 Input 2 ON Input 2 Auto Switch mode IOFF Fallback Time(Sec) 10 I
	Output Input Scaler Pass-Through Format 1120-000/000 Appect PILL Overscan Enable VSize 0 % Picture 8 Brightness 20 Saturation 0 Saturation 0 Reset Picture: Reset Picture:

Prefer Timing

Click this drop-down list to select the desired input resolution.

Available Resolutions			
Native	1280x720	1440x900	1920x1200
800x600	1280x800	1600x900	2560x1440
1024x768	1366x768	1920x1080	3840x2160

HDCP Settings

HDCP can be controlled on each input. Set this toggle switch to the **ON** position to set the HDCP reporting mode of each input (**HDMI IN**, **HDBaseT**). Some devices will automatically send HDCP content if an HDCP-compliant display is detected. Setting this toggle switch to the **OFF** position, will force the device to ignore detection of HDCP-compliant displays, allowing non-HDCP content to be transmitted from the souce. Note that setting this feature to the **OFF** position does *not* decrypt HDCP content.

Auto Switch

- Click the Auto Switch mode to the ON position to enable auto-switching. If the AT-HDVS-SC-RX detects a signal loss at one of the inputs, then it will automatically switch to the opposite input. Set to the OFF position to disable auto-switching.
- Click the **Fallback Time** drop-down list to select the fallback time interval. The AT-HDVS-SC-TX will wait until the fallback timer expires before auto-switching to the other input. Range: 3 600 seconds.



NOTE: When setting the fallback time interval, make sure that the Auto Power Off timer is at least six seconds longer that the fallback time interval. Refer to the Display page (page 25) for more information.



Input Selection

Click this drop-down list to select the desired active input. In addition to selecting an input, internal video test patterns can also be selected.

Inputs		
Input 1	HDBaseT	
Input 2	HDMI	
Internal Pattern 1		Color Bars This pattern is used to calibrate color settings on the display device.
Internal Pattern 2		Gray Scale This pattern is used to calibrate brightness and contrast.
Internal Pattern 3		Moving Bar This pattern is can be applied when troubleshooting video walls, by making sure all displays are in phase with one another. If all displays are in phase, there will be no "lag" in the moving bar.
Internal Pattern 4		Grid This pattern is used mainly for detection of corner convergence ("pin cushions"). Corner convergence is represented by the "bending" of the horizontal and vertical lines in the corners of the screen.



Scaler Pass-Through

Click this toggle switch to the **ON** position to pass-through the source signal without scaling or image processing.

Format

Click this drop-down list to set the output resolution of the scaler. This option is not available when the **Scaler Pass-Through** option is set to **ON**.

Format			
640x480p60	1280x768p60	1920x1080i50	2048x1080p60
800x600p60	1280x800p60	1920x1080i60	2048x1200p60
848x480p60	1280x1024p60	1920x1080p24	3840x2160p24
1024x768p60	1360x768p60	1920x1080p25	3840x2160p25
1152x870p75	1366x768p60	1920x1080p30	3840x2160p30
1280x720p30	1440x900p60	1920x1080p50	4096x2160p24
1280x720p50	1680x1050p60	1920x1080p60	4096x2160p25
1280x720p60	1600x1200p60	1920x1200p60	4096x2160p30

Aspect

Click this drop-down list to set the aspect ratio of the output signal. This option is not available when the **Scaler Pass-Through** option is set to **OFF**.

Overscan

Click this toggle switch to the **ON** position to enable overscan. When this feature is enabled, click and drag the **H Size** and **V Size** slider bars to adjust the horizontal and vertical overscan percentage, respectively. When both slider bars are set to 0 %, then no horizontal or vertical overscan is applied to the output signal.

Picture

Click and drag each of these slider bars to adjust the **Brightness**, **Contrast**, **Saturation**, and **Hue** of the output signal. The default value for both slider bars is 50.

Reset all Picture

Click this button to set all picture settings to the factory-default value.



The Web GUI

Audio page



Mute

Click this toggle switch to the **ON** position to mute all audio on the output.

HDMI Audio

Click this toggle switch to the **OFF** position to mute only the audio on the HDMI output.

L/R Audio

Click this toggle switch to the **OFF** position to mute only the audio on the **AUDIO OUT** port.

Output

Click and drag this slider bar to adjust the audio output volume. Range: -80 to 0. Values are in decibels.

Output Bass

Click and drag this slider bar to adjust the bass of the audio output. Range: -15 to 15.

Output Treble

Click and drag this slider bar to adjust the treble of the audio output. Range: -15 to 15.



The Web GUI

Display page

	X Display
Into Vudro Audo <mark>Digaty </mark> RS-212 Config System	CECECCOMMAND Power ON OFF Velume • . More
	System Settings Display Auto Power On Display Auto Power Off Lamp cool down timer(Sec.) 5 Auto power off time 15 Seconds Power on delay timer(Sec.) 5 Control Type Readback Verify Display Mode Display Mode Display Mode Audoux
	TCP/IP Settings of Controlled Device IP Address IP Address IP Address Variante Username user Save
	Bisplay commands Display commands Serd Mode Serd Mode Vote Set command Feedback None Set command None Feedback None Feedback
	Volume est Set command None • Mute est Set command None • Feedback None •

Power

Click the **ON** or **OFF** button to power-on or power-off the display using CEC.

Volume

Click the + or - button to increase or decrease the audio output volume, respectively. Click the **Mute** button to mute the output audio.

Consumer Electronics Control (CEC) Notice:

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



Display Auto Power On

Click this toggle switch to **ENABLE** to send the command to power-on the display when an A/V signal is detected. Otherwise, set to **DISABLE** to turn this feature off.

Display Auto Power Off

Click this toggle switch to **ENABLE** to send the command to power-off the display when an A/V signal is no longer present. Otherwise, set to **DISABLE** to turn this feature off.

Lamp cool down timer (Sec.)

Sets the cool-down interval, in seconds, before the projector can be powered-off. During this time interval, the projector will not accept any "power on" or "power off" commands until the last "power off" command has been processed and the projector lamp has completed the cool-down cycle. Range: 0 to 300.

Auto power off timer

Sets the time interval, in seconds, between when the loss of A/V signal is detected and when the "Display Off" command is sent. Range: 5 seconds to 1 hour.



NOTE: If using this timer with the Fallback Time interval (Auto-Switching), this value should be at least six seconds longer that the Fallback Time interval. Refer to the Video page (page 21) for more information.

Control Type

Sets the control method for sending commands. The following options are available: RS-232, IP, CEC.

Setting	Description
RS-232	RS-232 is used to send commands.
IP	Commands are sent over IP.
CEC	Uses CEC to send commands.

Feedback Verify

Sets the feedback verification state. Click the toggle to enable or disable this feature. The following options are available.

Setting	Description
On	This is the default setting. The AT-HDVS-SC-RX will make four attempts to send the command, if the feedback string is not acknowledged. After the fourth attempt, the process will fail.
Off	Sends the command and ignores the feedback string.



Display Mode

Click this drop-down list to select the behavior of the display when a source is connected.

Setting	Description
DispSW AVon	Display switches on/off, source audio/video signal is 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; Lamp cool down timer (Sec.) and Power on delay timer (Sec.) are ignored.

IP Mode

Click this drop-down list to select the login mode.

Setting	Description
Non-login	Does not require a username and password when using TCP/IP to control the display.
RS-232	Requires a username and password to control the display through TCP/IP.

IP Address

Enter the IP address of the device in this field.

Port

Enter the listening port of the device in this field.

Username

Enter the username for login. If the IP Mode is set to Non-Login, then this information will not be required.

Password

Enter the password for login. If the IP Mode is set to Non-Login, then this information will not be required.

Save

Click this button to save all changes in this window group.



Send Mode

Sets the display format for the commands in the web GUI. In **Hex** mode, non-valid characters are not accepted. Options: **ASCII**, **Hex**.

On/Off/Volume+/Volume-/Mute

- Set command Enter the command in this field.
- Feedback Enter the feedback string in this field.
- CR-LF

Click this drop-down list to select the desired end-of-line characters to be sent.

• Test

Click this button to test the command line and/or feedback.

Setting	Description				
None	No end-of-line characters included				
CR	Carriage return				
LF	Line feed				
CR-LF	Carriage return + Line feed				
Space	Space character				
STX	Start-of-text character				
ETX	End-of-text character				
Null	Null character (binary zero)				

Save

Click this button to save all changes in this window group.



The Web GUI

RS-232 page

	AT-HDVS-SC-RX RS-232
Info Video Audio Display RS-232	Config System GENERAL Logant
	Unite Unite Unite Unite R + 22 Ramiter Setting Unite Unite Unite Unite Unite Unite Unite Stop bit Unite Unite Unite Stop bit Unite Unite Unite

Zone

When the AT-HDVS-SC-RX is connected to the AT-HDVS-SC-RX, the drop-down list boxes will be disabled and the HDBaseT baud rate will be locked at 115200.

If the AT-HDVS-SC-RX is connected to another HDBaseT device, such as the AT-UHD-CLSO-824, each of these drop-down list boxes can be set to the baud rate of the HDBaseT RS-232 settings on the corresponding device. Click the **Save** button to accept the settings.

TX RS-232

When the AT-HDVS-SC-RX is connected to the AT-HDVS-SC-RX, the drop-down list boxes will be disabled and the HDBaseT baud rate will be locked at 115200.

If the AT-HDVS-SC-RX is connected to another HDBaseT device, such as the AT-UHD-CLSO-824, each of these drop-down list boxes can be set to the baud rate of the HDBaseT RS-232 settings on the corresponding device. Click the **Save** button to accept the settings.

Setting	Description
Baud rate	Sets the baud rate. The following options are available: 2400, 9600, 19200, 38400, 56000, 57600, 115200.
Data bit	Sets the number of data bits used to represent each character of data. The following options are available: 7 or 8.
Parity	Sets the parity bit, which can be included with each character to detect errors during the transmission of data. The following options are available: None, Odd, or Even.
Stop bit	Sets the stop bit. Stop bits are sent at the end of each character, allowing the client to detect the end of a character stream. The following options are available: 1 or 2.



RX RS-232 Zone 1

Each of these drop-down lists refer to the setting for the RS-232 1 port on the receiver. Click the **Save** button to accept the settings.

Setting	Description
Baud rate	Sets the baud rate. The following options are available: 2400, 9600, 19200, 38400, 56000, 57600, 115200.
Data bit	Sets the number of data bits used to represent each character of data. The following options are available: 7 or 8.
Parity	Sets the parity bit, which can be included with each character to detect errors during the transmission of data. The following options are available: None, Odd, or Even.
Stop bit	Sets the stop bit. Stop bits are sent at the end of each character, allowing the client to detect the end of a character stream. The following options are available: 1 or 2.



The Web GUI

Config page

Old Username

This field cannot be changed. "admin" is the administrator user.

Old Password

Enter the current password for the "admin" username in this field. The default password is "Atlona".

New Username

This field cannot be changed.

Save

Click this button to save all changes.

New Password

Enter the new password for the "admin" username in this field.

Confirm New Password

Verify the new password by retyping it in this field.

All User Login Settings

- **Username** Displays the username.
- **Password** Displays the password for the associated username.
- Edit

Click the Add button, in this column, to edit the username and password in the row.

• Del

Click the **Remove** button to delete the user in the row. This button will only be available if both a username and password have been created.



The Web GUI

System page

	S-SC-RX System
Info Video Audio Display RS-232 Config System	GENERAL Logar
	Relay Control # Follow Duplay Status Hanual Relay 1 Normality: Control Normality: Type Pulse Time
	System Network IP Mode: IP: East: IP: East: Retwork: East: Telest Not: East: Telest Tomout East: <t< th=""></t<>

Control

Click this radio button to select the behavior of the relays. Each relay has two states: normally open (NO) and normally closed (NC).

Setting	Description
Follow Display	The relays will toggle, based on the state of the AT-HDVS-SC-RX. For example, when the system is powered on, the relay will power-on the display. If the system is powered off, then the display will be powered off.
Manual	Relays can be triggered manually using the web GUI or using the RelayAct and RelayAuto commands. Refer to the API documentation for more information.

Relay 1

Click this toggle switch to Relay 1 to the OPEN (NO) or CLOSE (NC) state.

Relay 2

Click this toggle switch to Relay 2 to the OPEN (NO) or CLOSE (NC) state.

Туре

Click this radio button to select the type of relay.

Туре	Description
Pulse	The pulse relay is a (also called a "latch" relay) maintains either contact position, without power being applied. Relay contacts retain this setting across a power outage.
Closed	This type of relay toggles between NO and NC, when triggered.



IP Mode

Click this toggle switch to set the IP mode of the AT-HDVS-SC-RX. By default, the AT-HDVS-SC-RX is set to **DHCP** mode.

IP

Enter the IP address of the AT-HDVS-SC-RX in this field. This field will only be available if **IP Mode** is set to **STATIC IP**.

Netmask

Enter the subnet mask in this field. This field will only be available if **IP Mode** is set to **STATIC IP**.

Gateway

Enter the gateway (router) address in this field. This field will only be available if **IP Mode** is set to **STATIC IP**.

Telnet Port

Enter the Telnet port in this field.

Telnet Login Mode

Click this toggle switch to set the login mode to **ON** or **OFF**. If this feature is set to **ON**, then the AT-HDVS-SC-RX will prompt for both the username and password. Use the same login credentials as the web GUI.

Telnet Timeout

Click this drop-down list to select the timeout interval, in seconds, before the Telnet connection is automatically closed after no activity. Range: 1 to 3600.

Broadcast

By default, broadcast mode is set to **ON**. When set to **ON**, changes in the web GUI will also be affected on the control system (if connected), via TCP/IP. To separate control between web GUI and Telnet, set this feature **OFF**.

Reset to Default

Click the Factory Default button to set the AT-HDVS-SC-RX to factory-default settings.

Firmware Update

Click the **Choose File** button to select the firmware file, when upgrading the firmware on the AT-HDVS-SC-RX. Once the firmware file is selected, click the **Update** button. Refer to **Updating the Firmware (page 34)** for more information.



Updating the Firmware

Updating the firmware can be completed using either the USB interface or the web GUI. Atlona recommends using the web GUI for updating the firmware. However, if a network connection is not available, the AT-HDVS-SC-RX firmware can be updated using a USB-A to USB mini-B cable.

Using the Web GUI

Requirements:

- AT-HDVS-SC-RX
- Firmware file
- Computer
- 1. Connect an Ethernet cable from the computer, containing the firmware, to the same network where the AT-HDVS-SC-RX is connected.
- 2. Go to the System page (page 32) in the web GUI.

	C-RX System
Info Video Audio Display R3-232 Config System	GENERAL Logod
	Control # follow bloglay Status • Maxual • Normally: • Polors Relay Z Normally: • Polors Polors Type * Polers Pulse Time 1
Choose File button	System Network P IP: ID: ID:
	Broadcatt Orac Port L Default Factor Default Framware Update Closes File No file closen

- 3. Click the **Choose File** button, under the **Firmware Update** section.
- 4. Browse to the location of the firmware file, select it, and click the **Open** button.
- 5. Click the Update button, under the Firmware Update section.
- 6. The following message box will be displayed.

10.0.1.107 says:		>
Are you Sure want to update Firmware?		
	ОК	Cancel



7. Click the **OK** button to begin the firmware update process. Click the **Cancel** button to cancel the process.

During the firmware update process, the **PWR** LED indicator will flash, rapidly.





NOTE: The firmware update process may take up to five minutes to complete. When completed, the **PWR** and **INPUT 1** LED indicators will glow solid green, and the backlight on the **MENU** button will glow solid blue. Do not disconnect the power during the firmware update procedure.

8. After the firmware update process is complete, the **Login** screen will be displayed.

	T-HDVS-SC-RX Login			
		Login		
		Password		
		subrist		



Appendix

Using USB

Requirements:

- AT-HDVS-SC-RX
- Firmware file
- Computer running Windows
- USB-A to USB mini-B cable
- 1. Make sure the unit is powered, using the included power supply.
- 2. Press and hold the **MENU** key. While depressing the **MENU** button, connect the USB cable between the FW port on the AT-HDVS-SC-RX and the computer containing the firmware.

AT-HDVS-SC-RX	ENTER	^ V port	v	INPUT				4K SCALER
FW	— INPUT —	© 			$1 = \frac{2}{RX TX \pm TX RX}$	- ^L + ÷ + ^R -	C1 COM C2	AT-HDVS-SC-RX

3. The USB UPDATE folder will be displayed.

If this folder is not displayed, automatically, select the USB UPDATE drive from Windows Explorer.

💼 İ 🕑 🧻 🖬 İ Drive Tools USB UPDATE (E.)	> 🔮 Documents
File Home Share View Manage ← → ↑ ▲ > > ↓ ↓ ↓ ↓ ↓ ↓	> 🕂 Downloads
> Bocuments ∧ Name Date modified >	> 🁌 Music
> ≡ Pictures > ≣ Videos > ⊑ oS(c)	> E Pictures
>	> 📑 Videos
 Samsung_T3 (D:) Jossync 	> 🏪 OS (C:)
 Bes Sync USB UPDATE (E) 	> 👝 Samsung_T3 (D:)
> P Network V 0 items	> 🔜 USB UPDATE (E:)
[0 dems (Disk free space: 1.543 MB)	> 🛫 public (\\10.0.1.69) (Z:)

- 4. Delete all files from the USB UPDATE drive, if any are present.
- 5. Drag-and-drop the firmware file to the drive folder. The **PWR** LED indicator will flash green during the update procedure.
- 6. Disconnect the USB cable from the AT-HDVS-SC-RX.
- 7. The AT-HDVS-SC-RX will automatically reboot. When the **PWR** LED indicator is solid green, the firmware update process will be complete. The unit is now ready for use.



Default Settings

The following tables list the factory-default settings for the AT-HDVS-SC-RX.

Feature	Settings	
A/V Settings	Input Selection Auto Switch Mode Fallback Port Fallback Time HDCP Setting (Input 1) HDCP Setting (Input 2) Audio Output	Input 1 ON Previous 5 (seconds) ON ON ON
System Settings	Display Auto Power On Display Auto Power Off Lamp Cool Down Timer Auto Power Off Timer Power On Delay Timer Control Type Feedback Verify Display Mode IP Mode IP Address Port	Disabled Disabled 5 (seconds) 15 (seconds) 5 (seconds) RS-232 ON DispSW AVon Non-Login 255.255.255.255 65535
RS-232	Zone Baud rate Data bit Parity Stop bit TX RS-232 Baud rate Data bit Parity Stop bit RX RS-232 Zone 1 Baud rate Data bit Parity Stop bit	115200 8 None 1 115200 8 None 1 9600 8 None 1
EDID	Input 1 Input 2 Output	Default (1920x1080p @ 60 Hz) Default (1920x1080p @ 60 Hz)
Config	Username (default) Password (default)	root Atlona
System	IP Mode Static IP Address (default) Netmask Gateway Telnet Port Telnet Login Mode Telnet Timeout Broadcast Power	DHCP 192.168.1.254 255.255.255.0 192.168.1.1 23 OFF 300 (seconds) ON ON



Appendix

Specifications

Connectors, Controls, and Indicators			
INPUT 1 (HDBaseT)	1 - RJ45		
INPUT 2 (HDMI)	1 - Type A, 19-pin female		
USB	1 - Type mini-B, 5-pin female		
RS-232	1 - 5-pin captive screw		
AUDIO OUT	1 - 5-pin captive screw		
RELAY	1 - 3-pin captive screw		
LAN	1 - RJ45		
DC 24V	1 - 4-pin DIN, locking		
Front panel buttons	5 - Momentary, tact-type		
LED indicators	4 - LED, green		

Video					
HDMI In	UHD/HD/SD	4096x2160@24/25/30Hz, 3840x2160@24/25/30Hz, 1920x1080p@23.97/24/25/29.97/30/50/59.94 /60Hz, 1920x1080i@50/59.94/60Hz, 1280x720p@30/50/60Hz, 720x576p@50Hz, 720x576i@50Hz, 720x480p@59.94/60Hz, 640x480p@60Hz			/29.97/30/50/59.94 z, 720x576i@50Hz,
	VESA	2560×1600@60Hz(RB), 2 1920x1200@60Hz(RB), 1 1600×900@60Hz, 1440× 1280×1024@60Hz, 1280 1024×768@60Hz, 848x48	048×1536@60Hz, 2048×12 920×1080@60Hz(RB), 1680 900@60Hz, 1400×1050@60 ×800@60Hz, 1280×768@60 30@60Hz, 800×600@60Hz,	200@60Hz, 2048x1080@60 0×1050@60Hz, 1600×1200 0Hz, 1366×768@60Hz, 136 0Hz, 1280x720@60Hz, 115 640×480@60Hz	Hz, @60Hz, 0×768@60Hz, 2×870@75Hz,
HDBaseT In	UHD/HD/SD	4096x2160@24/30Hz, 3840x2160@24/25/30Hz, 1920x1080p@23.98/24/25/29.97/30/50/59.94/60 Hz, 1920x1080i@50/59.94/60Hz, 1280x720p@30/50/60Hz, 720x576p@50Hz, 720x480p@59.94/60Hz 640x480p@60Hz			.97/30/50/59.94/60 ′20x480p@59.94/60Hz,
	VESA	2560×1600@60Hz(RB), 2 1920x1200@60Hz(RB), 1 1600×900@60Hz, 1440× 1280×1024@60Hz, 1280 1024×768@60Hz, 848x48	048×1536@60Hz, 2048×12 920×1080@60Hz(RB), 1680 900@60Hz, 1400×1050@60 ×800@60Hz, 1280×768@60 30@60Hz, 800×600@60Hz,	200@60Hz, 2048x1080@60 0x1050@60Hz, 1600x1200 0Hz, 1366x768@60Hz, 136 0Hz, 1280x720@60Hz, 115 640x480@60Hz	Hz, @60Hz, 0×768@60Hz, 2×870@75Hz,
HDMI Out		4096x2160p@24/25/30Hz, 3840x2160@24/25/30Hz, 1920x1200@60Hz, 1920x1080p@24/25/30/50/60Hz, 1680x1050@60Hz, 1600x1200@60Hz, 1440x900@60Hz, 1360x760@60Hz, 1280x1024@60Hz, 1280x800@60Hz, 1280x768@60Hz, 1024x768@60, 800x600@60Hz, 640x480@60Hz			
Color Space		YUV, RGB			
Chroma Subsampling		4:4:4, 4:2:2, 4:2:0			
Color Depth		8-bit, 10-bit, 12-bit			
Audio					
HDMI IN & HDBas	eT OUT	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus™, Dolby TrueHD, DTS- HD Master Audio™, Dolby Atmos®, DTS:X			
Sample Rate		32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz			
Bit Rate		24-bit (max.)			
Resolution / Distar	ice	4K - Feet	4K - Meters	1080p - Feet	1080p - Meters
CAT5e/6		230	70	330	100
CAT6a/7		330	100	330	100
HDMI IN/OUT		15	5	30	10



Appendix

Signal			
Maximum TMDS Clock	300 MHz		
HDBaseT	10.2 Gbps		
HDMI	2.0		
HDCP	1.4 / 2.2		
CEC	2.0		
Temperature	Fahrenheit	Celsius	
Operating	32 to 122	0 to 50	
Storage	-4 to 140	-20 to 60	
Humidity (RH)	20% to 90%, non-condensing		
Power			
Consumption	24.75 W		
Supply	Input: 100 - 220 V AC, 50/60 Hz, Output: 24 V / 2.7 A DC		
Dimensions	Inches	Millimeters	
H x W x D (w/o feet)	1.02 x 8.40 x 9.17	26 x 213.5 x 233	
H x W x D (w/ feet)	1.22 x 8.40 x 9.37	31 x 213.5 x 233	
Weight	Pounds	Kilograms	
Device	2.97	1.35	
Device	CE, FCC		
Power Supply	CE, FCC, Level VI, RoHS, cULus, RCM, CCC		



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