

4K / UHD Two-Input Wallplate Switcher for HDMI and USB-C with HDBaseT[™] Output





AT-HDVS-210U-TX-WP Atlona Manuals Switchers



Version Information

Version	Release Date	Notes
1	12/17	Initial release
2	02/18	f/w 1.0.10; added InputStatus and InputBroadcast commands
3	04/18	Commands moved to separate API document



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Operating Notes



IMPORTANT: Visit http://www.atlona.com/product/AT-HDVS-210U-TX-WP for the latest firmware updates and User Manual.

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OR

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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-210U-TX-WP** is a 2×1 switcher and HDBaseT transmitter with HDMI and USB-C inputs. It features a US one-gang, Decora-style wallplate form factor, and includes interchangeable black and white wallplates and faceplates. The USB-C input is ideal for AV interfacing with newer Mac®, Chromebook[™], and Windows® PCs, as well as smartphones and tablets. Video signals up to 4K/UHD @ 60 Hz with 4:2:0 chroma subsampling, plus embedded audio and control can be transmitted up to 330 feet (100 meters). The HDVS-210U-TX-WP is HDCP 2.2 compliant. It is designed for use with the AT-UHD-EX-100CE-RX-PSE receiver, but can also be used with the AT-HDVS-200-RX receiver and HD scaler, as well as Atlona switchers and matrix switchers with HDBaseT inputs. This transmitter can serve as an integral component of a fully automated AV system, with the convenience of automatic input selection and display control. It is remotely powered by the UHD-EX-100CE-RX-PSE or other Atlona HDBaseT-equipped devices through Power over Ethernet (PoE).

Features

- US one-gang enclosure for Decora-style wallplate openings interchangeable as black or white
- 2×1 HDBaseT switcher with HDMI and USB-C inputs
- HDBaseT transmitter for AV, power, and control up to 330 feet (100 meters)
- HDCP 2.2 compliant
- 4K/UHD capability @ 60 Hz with 4:2:0 chroma subsampling
- Remotely powered via PoE (Power over Ethernet)
- Automatic display control
- Automatic input selection using hot plug detect and video detection technology
- TCP/IP and RS-232 control of switcher
- EDID management
- HDCP management
- Configured and managed by AMS (Atlona Management System)
- Field-updatable firmware
- Front-panel power and signal status LED indicators
- Award-winning 10 year limited product warranty

Package Contents

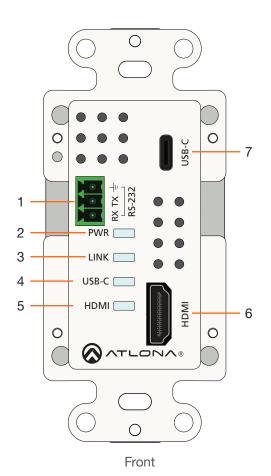
1 x AT-HDVS-210U-TX-WP

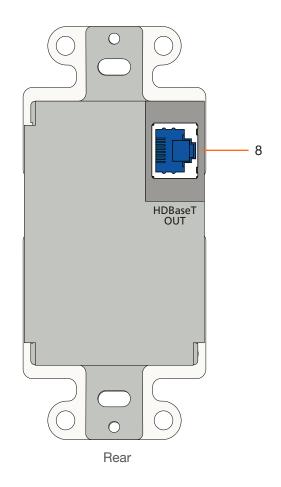
1 x White faceplate with RS-232 cover

- 1 x White wallplate
- 1 x Black faceplate with RS-232 cover
- 1 x Black wallplate
- 1 x Installation Guide



Panel Description





(White faceplate is shown)

1 RS-232

Remove this cover to expose the RS-232 port. Connect an RS-232 cable, with a 3-pin captive screw connector, from this port to a control system. Refer to RS-232 Connector (page 10) for more information.

2 PWR

This LED indicator glows solid green when the unit is powered.

3 LINK

This LED indicator glows solid green to indicate the presence of a stable A/V signal.

4 USB-C

This LED indicator glows solid green when the **USB-C** port is the currently selected port. This port *does not* support charging of external devices.

5 HDMI

This LED indicator glows solid green when the **HDMI** port is the currently selected port.

6 HDMI

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

7 USB-C

Connect an USB cable from this port to a UHD/HD source.

8 HDBaseT OUT

Connect an Ethernet cable from this port to a locally-powered HDBaseT receiver such as the AT-HDVS-200-RX, AT-HDVS-150-RX, or AT-UHD-EX-100CE-RX-PSE.

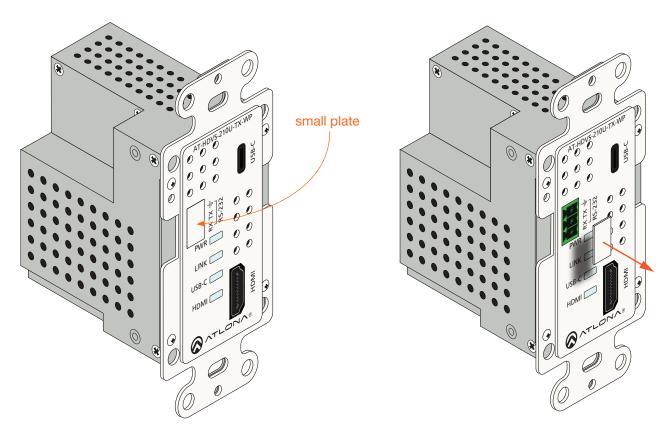


Installation

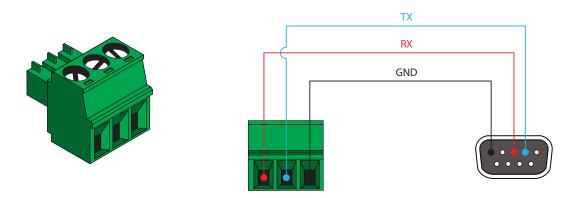
RS-232 Connector

The AT-HDVS-210U-TX-WP provides RS-232 control between an automation system and an RS-232 device. This step is optional.

1. Remove the small plate covering the RS-232 port on the faceplate.



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





Connection Instructions

- 1. Determine the proper faceplate to be used for installation. If using the black faceplate, then refer to Faceplate Removal and Assembly (page 13) for information on changing the faceplate.
- 2. Connect an Ethernet cable, from the **HDBaseT OUT** port, on the rear of the unit, to one of the following devices. Ethernet cables should use EIA/TIA-568B termination:
 - a. PoE-compatible receiver (not included), such as the AT-HDVS-200-RX. Refer to Figure 1 on the next page.
 - b. Atlona Power Over Ethernet Mid-Span Power Supply (AT-PS-POE). Use this option if the system endpoint is not capable of supplying power to the AT-HDVS-210U-TX. Refer to *Figure 2* on the next page.

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)				
Performance	Performance Rating (MHz)		500	600	800

Cable	Max. Distance @ 4K	Max. Distance @ 1080p
CAT5e / CAT6	115 feet (35 meters)	200 feet (60 meters)
CAT6a / CAT7	130 feet (40 meters)	230 feet (70 meters)



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

- 3. Complete the installation of the AT-HDVS-210U-TX-WP into the electrical box or mudring. Refer to the Connection Diagram (page 12) if necessary.
- 4. Connect a USB-C cable from the **USB-C** port to a UHD/HD source.



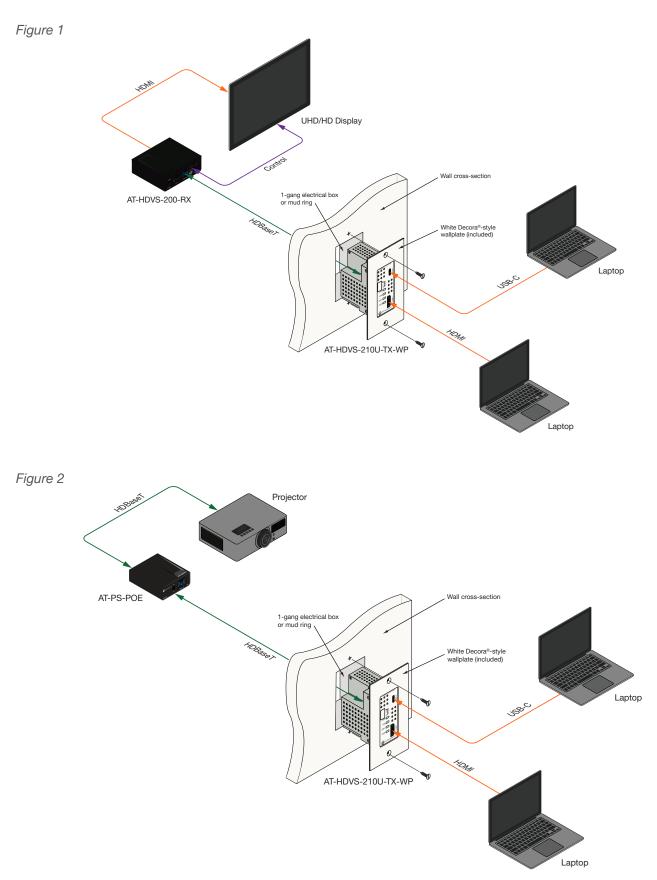
NOTE: The USB-C port *does not* support charging of external devices.

- 5. Connect an HDMI cable from the HDMI port to a UHD/HD source.
- 6. OPTIONAL: Connect an RS-232 control system to the **RS-232** port on the switcher. This port is used to control functions of the AT-HDVS-210U-TX-WP, such as volume up/down, display on/off, etc.

No power supply is required for the AT-HDVS-210U-TX-WP. This unit will be powered over the Ethernet cable, from a compatible HDBaseT receiver.



Connection Diagram

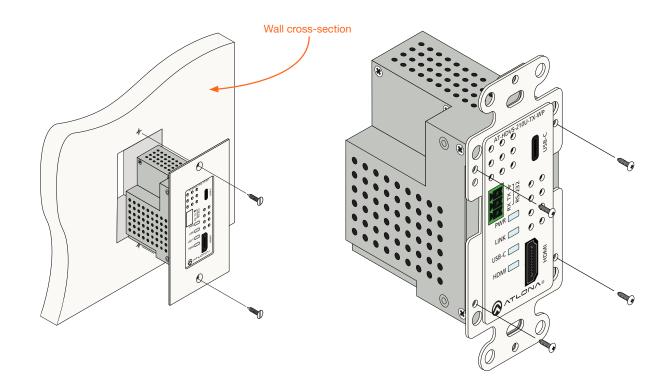




Faceplate Removal and Assembly

The AT-HDVS-210U-TX-WP includes an optional black faceplate and wallplate. Removal of the faceplate requires that the AT-HDVS-210U-TX-WP be disassembled from the electrical box or mud ring.

 Remove the wall plate from the electrical box and slide out the AT-HDVS-210U-TX-WP assembly, as shown. It is recommended that the Ethernet cable, connected to the **HDBaseT OUT** port, be disconnected from the unit, to allow for easy installation of the faceplate.



- 2. Remove the four screws, holding the faceplate to the assembly, using a Phillips screwdriver. Once the screws are removed, gently remove the faceplate by pulling it toward you.
- 3. Attach the new faceplate and secure it using the four Phillips-head screws.
- 4. Install the AT-HDVS-210U-TX-WP into the electrical box or mud ring. Make sure to reconnect the Ethernet cable to the **HDBaseT OUT** port, on the back of the assembly, before reinstalling the unit into the electrical box.
- 5. Reattach the wallplate to secure the entire assembly in place.



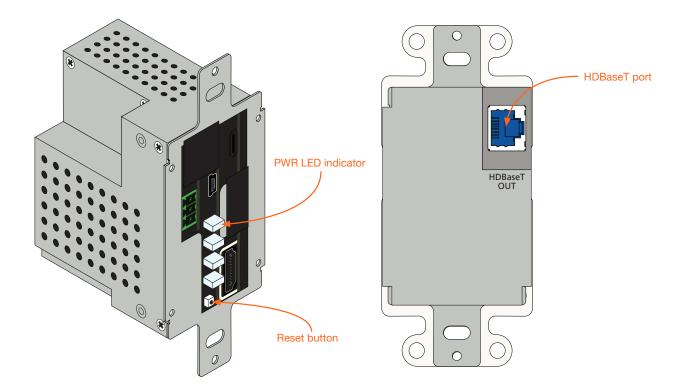
IP Configuration

The AT-HDVS-210U-TX-WP is shipped with DHCP enabled. Once connected to a network, the DHCP server (if available), will automatically assign an IP address to the unit. Use an IP scanner, along with the MAC address on the back of the unit, to identify both the unit and its IP address on the network. If a static IP address is desired, the unit can be switched to static IP mode. Use one of the following procedures to switch between DHCP and static IP mode. The default static IP address of the AT-HDVS-210U-TX-WP is 192.168.1.254.

If the AT-HDVS-210U-TX-WP is unable to detect a DHCP server within 15 seconds, then the unit will set all IP settings to zero.

Setting the IP Mode

- 1. Make sure the AT-HDVS-210U-TX-WP is powered, by connecting an Ethernet cable between a PoE-compatible receiver, such as the AT-HDVS-200-RX, and the **HDBaseT OUT** port on the unit. Power is supplied by the receiver over HDBaseT.
- 2. Remove the faceplate. Refer to Faceplate Removal and Assembly (page 13) for more information.



3. Press and hold the **Reset** button for approximately 5 seconds. Release the **Reset** button once the **PWR** LED indicator begins to flash. The number of flashes will indicate the currently selected IP mode.

PWR LED flashes	Description
Тwo	Static IP mode
Four	DHCP mode



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 document for more information. All commands and their arguments are case-sensitive.

- Setting static IP mode
 - 1. Connect to the AT-HDVS-210U-TX-WP 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-210U-TX-WP, the subnet mask, and the gateway address. All arguments must be entered in dotdecimal notation. The following is an example:

IPStatic 192.168.1.112 255.255.255.0 192.168.1.1 IP address Subnet mask Gateway

Setting DHCP mode

- 1. Connect to the AT-HDVS-210U-TX-WP 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 31), in the web GUI, allows the AT-HDVS-210U-TX-WP to use either DHCP or static IP mode. In order to access the web GUI, the IP address of the AT-HDVS-210U-TX-WP must be known. Refer to Setting the IP Mode (page 14) for more information.

- 1. Open the desired web browser and enter the IP address of the AT-HDVS-210U-TX-WP.
- 2. Log in, using the required credentials. The factory-default username and password are listed below:

Username: root		
Password: Atlona	IP Mode:	STATIC IP
	IP:	10.0.1.146
Click the System tab.	Netmask:	255.255.255.0 Save
	Gateway:	10.0.1.1
	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.

3. Click the



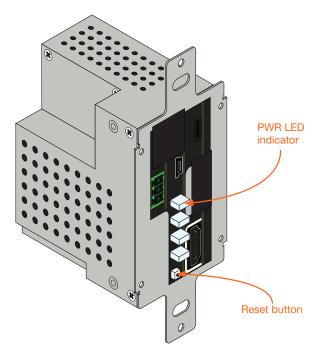
Resetting to Factory-Default Settings

Resetting the AT-HDVS-210U-TX-WP requires that the front faceplate be removed. Refer to Faceplate Removal and Assembly (page 13) for more information.

- 1. Remove the faceplate from the AT-HDVS-210U-TX-WP.
- 2. Press and hold the **Reset** button for 15 seconds.
- 3. Release the **Reset** button.

During the reboot process, the **PWR** LED indicator will glow red. The unit will be operational when the **PWR** LED indicator glows blue.

 Reassemble the faceplate to the front of the AT-HDVS-210U-TX-WP and reinstall into the electrical box or mud ring.





Accessing the Web GUI

The AT-HDVS-210U-TX-WP includes a built-in web GUI. Atlona recommends that the web GUI be used to set up the AT-HDVS-210U-TX-WP, as it provides intuitive management of all features.

The AT-HDVS-210U-TX-WP 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-210U-TX-WP. If a static IP address is desired, refer to IP Configuration (page 14). The default static IP address of the AT-HDVS-210U-TX-WP is 192.168.1.254.



NOTE: The web GUI can only be accessed if the AT-HDVS-210U-TX-WP is connected to a compatible PoE receiver unit, such as the AT-HDVS-200-RX, using the **HDBaseT** port. The receiver must be connected to the network.

- 1. Launch a web browser.
- 2. Use one of the following methods to access the IP address of the AT-HDVS-210U-TX-WP:
 - a. Login to the web GUI of the receiver unit that is connected to the AT-HDVS-210U-TX-WP. Once logged in, click the link for the AT-HDVS-210U-TX-WP, as shown:

			NA.	AT-	-HDVS-200-RX	Info		
Info	Video	Audio	Picture	RS-232	Config System	AT-HDVS-210U-TX-WP		Logout
				Info Model Name : Software Versio VALENS Versio Video Format : TX Type :	sion: 2.0.00 on: 1.30.92.1			
					System		AT-HDVS-210U-TX-WP	
					_			_

b. Use an IP scanner to locate the IP address of the AT-HDVS-210U-TX-WP on the network. The MAC address, on the back of the unit, can be used to identify the unit with the IP address.

The Address Resolution Protocol, executed from the command line, can also be used, as shown in the example below. This command will provide a listing of all devices that are connected to the network, along with their MAC address.

C:\Windows\System32>arp -a					
Internet Address	Physical Address	Туре			
192.168.1.1	08-bd-43-af-25-13	dynamic			
192.168.1.255	ff-ff-ff-ff-ff	static			
224.0.0.22	01-00-5e-00-00-16	static			
224.0.0.251	01-00-5e-00-00-fb	static			
224.0.0.252	01-00-5e-00-00-fc	static			
239.255.255.250	01-00-5e-7f-ff-fa	static			
255.255.255.255	ff-ff-ff-ff-ff	static			

```
. . .
```



- 3. The **Login** page for the receiver will be displayed.
- 4. Type root, using lower-case characters, in the Username field.
- 5. Type Atlona in the **Password** field. This is the default password. The password field 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 30) for more information.
- 6. Click the **Submit** button or press the ENTER key on the keyboard.

AT-HDVS-210U Login
Large installation 7 Marcel Andrew

7. The **Info** page will be displayed.

Connecting Technology	AT-HDVS-210U Info	
Into AV Settings Display	RS 232 EDID Config System HDBT	Logout
na W indege Depar	48.527 17.80 Curring System International System Sectors Info	tiger

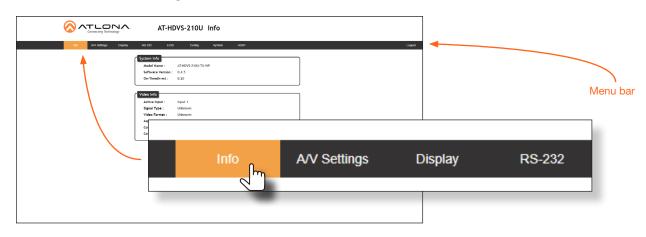
8. Click **Logout**, on the far-right side of the menu bar, to log out of the web GUI and return to the **Login** page.

Conneting Technology	AT-HDVS-210U Info	
tanin Avi settanga. Daging	NS-222 17.00 Curlig ilyolam H2.001 [logual 5.5525m Info Mudel Novo : Af 2400 5 2103-17 (APP 5.6540 are 7 (Novi - 2103-17 (APP 5.6540 are 7 (APP - 2103-17 (APP 5.6540 are 7 (APP - 2103-17 (APP -	
	Video Mr0 Active Report : lipput 1 Stage 1759 :: Unknown Video Franzer : Unknown Coder Stage :: Coder Stage :	
	Coir teps).	



Menu Bar

The dark-colored bar, near the top of the screen, is the menu bar. When the mouse is moved over each menu element, it will be highlighted in light orange. Once the desired menu element is highlighted, click the left mouse button to access the settings within the menu.



In this example, clicking A/V Settings, in the menu bar, will display the A/V Settings page.

	AT-HDVS-210U A/	V Settings			
Mo Afridanege Degle	VVds Input Selection Input Selection Auto Switch Auto Switch reliabce Mr Previous • reliabced Therefore (5 • • HDCP Settings Input (6)	ywn HCOTT	taq		
	Info	A/V Settings	Display	RS-232	E

Toggles

Several settings within the Web GUI use *toggles*, which enable, disable, or assign one of two settings. Generally, when the *toggle* is blue, it means that the feature is *enabled* or ON. If a feature is *disabled*, then the *toggle* will appear gray and be labeled as OFF. Toggle buttons may also indicate its current setting and, when enabled or set to a particular state, may also provide access to another set of controls or text fields within the Web GUI, as shown with the **IP Mode** toggle.

IP Mode:	STATIC IP]
IP:	10.0.1.146	-
Netmask:	255.255.255.0	Save
Gateway:	10.0.1.1	
Telnet Port:	23	



Buttons

Buttons are used to execute an action or setting. Several pages within the Web GUI include a **Save** button. Clicking the **Save** button will apply and save all settings in the current page. Other buttons, such as the **Factory Default** button, under the **System** page, reset the AT-HDVS-210U-TX-WP to factory-default settings





Info page

	AT-HDVS-210U Info	
Info A/V Settings Display	RS-232 EDID Config System HDBT	Logout
	System Info Model Name : AT-HDVS-210U-TX-WP Software Version : 0.4.5 On-Time(h-m) : 0:20	
	Video Info Active Input : Input 1	
	Signal Type : Unknown	
	Video Format : Unknown	
	Aspect :	
	Color Space : Color Depth :	

Model Name

The model SKU of this product.

Software Version

The version of firmware that the AT-HDVS-210U-TX-WP is running. Always make sure to check the AT-HDVS-210U-TX-WP product page, on the Atlona web site, for the latest version of firmware.

On-Time (h-m)

The time elapsed since the unit was last powered-on. Turning the unit "off", using the PWOFF command, will not reset this field.

Active Input

The currently selected input. Refer to the A/V Settings page (page 22) for information on changing the input.

Signal Type

Displays the input resolution of the source device.

Video Format

Displays the video format.

Aspect

Displays the aspect ratio of the input video source.

Color Space

Displays the color space of the input video source.

Color Depth

Displays the color depth of the input video source.



A/V Settings page

	AT-HDVS-210U A/V Settings	
Into AV Settings Display	AT-HDVS-210U A/V Settings	

Input Selection

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

Setting	Description
Input 1	USB-C
Input 2	HDMI

Auto Switch

Set the **Auto Switch** mode toggle to ON to enable auto-switching. When auto-switching is enabled, the switcher will automatically switch to the opposite input if a signal loss is detected on the current input. The default setting is ON.

HDCP Settings

Sets the HDCP reporting mode of the input port. Input 1 = USB-C; Input 2 = HDMI. Some devices, such as Mac computers will transmit HDCP content if an HDCP-compliant display/sink is detected. Setting this value to OFF, will instruct the source to send non-HDCP content (if possible) to non-HDCP display and/or sink devices. Note that setting this value to OFF will <u>not</u> decrypt HDCP content.

Setting	Description
ON	HDCP content is always transmitted by the source
OFF	Instructs the source to send non-HDCP content, if possible

Output

Mutes or un-mutes the audio output. Set the **Output** toggle to OFF to disable audio on the output. The default setting is ON.



Display page

Connecting Technology	AT-HDVS-210U Display		
Info A/V Settings Display	RS-232 EDID Config System HDBT		Logout
	CEC CEC Command Power ON OFF		
ſ	System Settings		
	Display Auto Power On DISABLED		
	Display Auto Power Off DISABLED		
	Lamp cool down timer(Sec.) 5 • Auto power off timer 15 Seconds •		
	Power on delay timer(Sec.) 5		
	Control Type RS-232 V		
	Feedback Verify		
	Display Mode DispSW AVon •		
l			
	TCP/IP Settings of Controlled Device IP Mode Non-Login IP Address 255.255.255 Port 65535 Username Username Password •••••••• Save Save		
	Send Mode ASCII		
	Set command PW 1	None •	
	Feedback PW 1	None •	
	OFF Test Set command PW 0	None •	
	Feedback PW 0	None •	
	Volume+ Test Set command VOL+	None	
	Volume- Test Set command VOL-	None	
	Mute Test		
	Set command MUTE Feedback MUTE	None T	
	Save Load Parameters		

CEC

CEC Command

Click the ON or OFF button to turn the display on or off using CEC.



System Settings

Display Auto Power On

Set this value 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

Set this value 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.

Power on delay timer (Sec.)

Sets the time interval, in seconds, between when the system is powered-on, and when system can re-enter the Auto Power Off state. All display-on commands are triggered immediately after an A/V source is connected. Range: 0 to 300.

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-210-TX-WP 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.

TCP/IP Settings of Controlled Devices

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.



RS-232 / IP Commands

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.



RS-232 page

	AT-HDVS-210U RS-232
Info AA/ Settings Display	PS-292 FDID Confin System HDRT Longet
Info AV Settings Display	Res2 EDD Cordity System HDBT Lopout

Zone

When the AT-HDVS-210U-TX-WP is connected to the AT-HDVS-200-RX, the drop-down list boxes will be disabled and the HDBaseT baud rate will be locked at 115200.

If the AT-HDVS-210U-TX-WP 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-210U-TX-WP is connected to the AT-HDVS-200-RX, the drop-down list boxes will be disabled and the HDBaseT baud rate will be locked at 115200.

If the AT-HDVS-210-TX-WP 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.



EDID page

	AT-HDVS-210U EDID	
Connecting Technology	RS-232 EDID Config System HDBT EDID Settings Input 1 Default • Input 2 Default • Output save to Select •	Logout

EDID Settings

Click these drop-down lists to select the desired EDID to be used for each input. Input 1 = USB-C, Input 2 = HDMI. The source device will use the information in the EDID, before sending A/V data to the sink device.

Available EDID Selections					
Default	1080p 3D MCH	1366x768 2CH	3840x2160@60 4:2:0 MCH		
1080p 2CH	1080p 3D DD	1080p DVI	3840x2160@30 4:4:4 2CH		
1080p MCH	720p 2CH	1280x800 DVI	3840x2160@60 4:4:4 MCH		
1080p DD	720p DD	1920x1200 2CH	4096x2160@60 4:2:0 2CH		
1080p 3D 2CH	1280x800 2CH	3840x2160@60 4:2:0 2CH	4096x2160@60 4:2:0 MCH		

EDID Saved

Click this drop-down list to select the memory location to save the downstream EDID. Eight memory locations are available. Once an EDID is saved to a memory location, it can be access from the **EDID Settings** drop-down lists.



Config page

				AT-HDVS	5-210U	Config					
info A	VV Settings	Display	RS-232	EDID	Config	System	HDBT				Logout
			Old User Old Pass New Use New Pas Confirm	elnet Login Se mame word ername		root root Password	Save	Det Remove Remove			
							Add	Remove	J		

Old Username

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

Old Password

Enter the current password for the "root" 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 fro the "root" 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.



System page

	AT-HDVS-210U System	
Info AV Settings Display	RS-232 EDID Config System HDBT Network IP. IP.	Logout
	System Power M Reset to Default Factory Default Firmware Update Choose File No file chosen Update	

IP Mode

Click this toggle to set the IP mode of the AT-HDVS-210U-TX-WP. The default setting is DHCP. Available settings: STATIC IP, DHCP.

IP

Enter the IP address of the AT-HDVS-210U-TX-WP in this field. This field will only be available if **IP Mode** is set to STATIC IP. The default IP address is 192.168.1.254.

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 listening port in this field.

Telnet Login Mode

Click this toggle to set the login mode to either ON or OFF. If this feature is set to ON, then the AT-HDVS-210U-TX-WP will prompt for both the username and password at the start of a Telnet session. Use the same 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 (seconds).

Broadcast

By default, broadcast mode is set to ON. When set to ON, any system changes will be broadcasted to the web GUI will also be affected on the control system (if connected), via TCP/IP. To separate control between the web GUI and Telnet, set this feature to OFF. Command queries such as IPCFG and Type will only return information to the requester.



Power

Under normal operation conditions, this toggle is set to ON. Click this toggle to OFF, to turn the AT-HDVS-210U-TX-WP "off". When "off", the PWR LED indicator will turn red. The PWOFF and PWON commands can also be used to control the power state.

Reset to Default

Click the Factory Default button to set the AT-HDVS-210U-TX-WP to factory-default settings.

Firmware Update

Click the **Choose File** button to select the firmware file, when upgrading the firmware on the AT-HDVS-210U-TX-WP. Once the firmware file is selected, click the Update button. Refer to Updating the Firmware (page 34) for more information.



HDBT page

	AT-HDVS-210U	HDBT	
Info AV Settings Display	RS-232 EDID Config	System HDBT	Logout
١	HDBaseT Channel Cable Test		
	HDBaseT Zone Output 1 *	Start	
	TX Version	Test Instructions	
	RX Version TMDS Clock	1. Select HDBT Zone 2. Connect active HDMI source(DVD etc) 3. Ensure source and sink are operating	
	Cable length (Estimated)	4. Click the Start button	
	Video Quality (Video BER)	Use highest source resolution without exceeding 4K@60Hz 4:2:0	
	Cable Quality Pair A Cable Quality Pair B	 If the BER and Cable quality all pass, the system is functioning as expected. 	
	Cable Quality Pair C Cable Quality Pair D	If BER passes but one or more of the Cable pairs fail, the cable is compromised and may require retermination.	
		If BER and one or more of the Cable pairs fails, the cable should be reterminaited. If this does not fix the issue, the cable may need to be replaced.	
	EIA568A RJ45 Pairing		
	Pair A Pair B Pair C Pair D		

HDBaseT Zone

The AT-HDVS-210U-TX-WP has only a single HDBaseT output. Therefore, this drop-down list is disabled.

Start

Click the **Start** button to being the HDBaseT testing. During testing, the button text will change to "Stop". Click the **Stop** button to halt the HDBaseT testing process.

TX Version

The version of the Valens chip on the transmitter.

RX Version

The version of the Valens chip on the receiver.

TMDS Clock

Displays the pixel clock speed. If no source is connected, then this field will display as "None".

Cable length (Estimated)

This field indicates the approximate length of the Ethernet cable connected between the HDBaseT ports on the transmitter and the receiver. If the cable length is less than 15 feet, then this value will be displayed as 0 (zero).

Video Quality (Video BER)

The Bit Error Rate (BER). This field displays either PASS or FAIL during a test.

Cable Quality Pair (A, B, C, D)

Each of these fields will display either PASS or FAIL during a test.



Appendix

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-210U-TX-WP firmware can be updated using a USB-A to USB mini-B cable.

Using the Web GUI

Requirements:

- AT-HDVS-210U-TX-WP
- Firmware file
- Computer
- 1. Connect an Ethernet cable from the computer, containing the firmware, to the same network where the AT-HDVS-210U-TX-WP is connected.
- 2. Go to the System page (page 31) in the web GUI.

	AT-HDVS-210U System	
Info A/V Settings Display	RS-232 EDID Config System HDBT	Logout
Choose File button	Vetwork IP Mode: IP: 00.1146 Netmask: 55:55:55:55:55:55:55:55:55:55:55:55:55:	

- 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

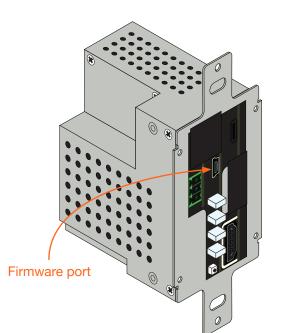
- 7. Click the **OK** button to begin the firmware update process. Click the **Cancel** button to cancel the process.
- 8. After the firmware update process is complete, the **Login** screen will be displayed.

	AT-HDVS-210U Login
Login Username Password Submit	<section-header><section-header><text><list-item><list-item><list-item><list-item><list-item><text></text></list-item></list-item></list-item></list-item></list-item></text></section-header></section-header>

Using USB

Requirements:

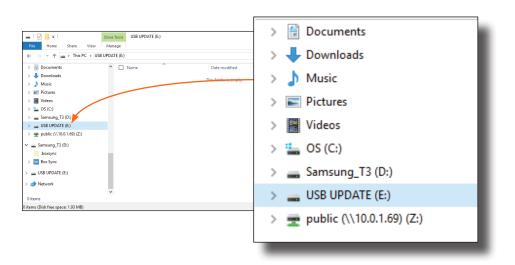
- AT-HDVS-210U-TX-WP
- Firmware file
- Computer running Windows
- USB-A to USB mini-B cable
- 1. Disconnect power from the AT-HDVS-210U-TX-WP, by disconnecting the Ethernet cable from the **HDBaseT OUT** port on the unit.
- 2. Remove the wall plate from the AT-HDVS-210U-TX-WP. Refer to Faceplate Removal and Assembly (page 13) if necessary.
- 3. Locate the firmware port.





- 4. Connect the USB-A to USB mini-B cable between the PC and the firmware port on the AT-HDVS-210U-TX-WP. The unit will be powered by the USB cable.
- 5. The USB UPDATE folder will be displayed.

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



- 6. Delete all files from the USB UPDATE drive, if any are present.
- 7. Drag-and-drop the firmware file to the drive.
- 8. After the file has been copied, disconnect the USB cable from both the computer and the AT-HDVS-210U-TX-WP.
- 9. The firmware update process is complete.
- 10. Reconnect the Ethernet cable to the **HDBaseT OUT** port.



Default Settings

The following tables list the factory-default settings for the AT-HDVS-210U-TX-WP.

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 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

HDMI	1 - Type A, 19-pin female			
USB-C*	1- USB Type-C v3.1, 24-pin, female			
RS-232	1 - 3-pin captive screw			
HDBaseT OUT	1- RJ45			
Reset button	1 - momentary, tact-type			
PWR	1 - LED, green			
LINK	1 - LED, green			
USB-C	1 - LED, green			
HDMI	1 - LED, green			

* This port *does not* support charging of external devices.

Video						
UHD/HD/SD	4096×2160@24/25/30/50*/60Hz*, 3840×2160@24/25/30/50*/60Hz*, 2048x1080p, 1080p@23.98/24/25/29.97/30/50.994/60Hz, 1080i@50/59.94/60Hz, 720p@50/59.94/60Hz, 576p, 576i, 480p, 480i					
VESA	2560×2048, 2560×1600, 2048×1536, 1920×1200, 1680×1050, 1600×1200, 1600×900, 1440×900, 1400×1050, 1366×768, 1360×768, 1280×1024, 1280×800 1280×768, 1152×768, 1024×768, 800×600, 640×480					
Color Space	YUV, RGB	YUV, RGB				
Chroma Subsampling	4:4:4, 4:2:2, 4:2:0	4:4:4, 4:2:2, 4:2:0				
Color Depth	8-bit, 10-bit, 12-bi	8-bit, 10-bit, 12-bit				
Audio						
HDMI IN / HDBaseT OUT	PCM 2Ch, LPCM 5.1, LPCM 7.1, Dolby® Digital, DTS® 5.1, Dolby Digital Plus, Dolby TrueHD, DTS-HD Master Audio™					
Sample Rate	32 kHz, 44.1 kHz,	48 kHz, 88.2 kHz, 96	kHz, 176.4 kHz, 192 k	кНz		
Bit Rate	24-bit (max.)					
Resolution / Distance	4K/UHD - Feet / M	eters	1080p - Feet / Meter	S		
Resolution / Distance HDMI IN / OUT	4K/UHD - Feet / M	eters 5	1080p - Feet / Meter 30	s 10		
HDMI IN / OUT	15	5	30	10		
HDMI IN / OUT CAT-5e / CAT-6	15 230	5 70	30 330	10 100		
HDMI IN / OUT CAT-5e / CAT-6 CAT-6a / CAT-7	15 230	5 70	30 330	10 100		
HDMI IN / OUT CAT-5e / CAT-6 CAT-6a / CAT-7 Signal	15 230 230	5 70	30 330	10 100		
HDMI IN / OUT CAT-5e / CAT-6 CAT-6a / CAT-7 Signal Bandwidth	15 230 230 10.2 Gbps	5 70	30 330	10 100		
HDMI IN / OUT CAT-5e / CAT-6 CAT-6a / CAT-7 Signal Bandwidth HDMI	15 230 230 10.2 Gbps 2.0	5 70	30 330	10 100		
HDMI IN / OUT CAT-5e / CAT-6 CAT-6a / CAT-7 Signal Bandwidth HDMI CEC	15 230 230 10.2 Gbps 2.0 Yes	5 70	30 330	10 100		
HDMI IN / OUT CAT-5e / CAT-6 CAT-6a / CAT-7 Signal Bandwidth HDMI CEC HDCP	15 230 230 10.2 Gbps 2.0 Yes 2.2	5 70	30 330 330	10 100		
HDMI IN / OUT CAT-5e / CAT-6 CAT-6a / CAT-7 Signal Bandwidth HDMI CEC HDCP Temperature	 15 230 230 230 10.2 Gbps 2.0 Yes 2.2 Fahrenheit 	5 70	30 330 330 Celsius	10 100		



Appendix

Dimensions			
Wall	1 gang		
Weight	Pounds	Kilograms	
Device	0.4 lbs	0.18 kg	
Certification			
Unit	CE, FCC		



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