

OmniStream[™] Single-Channel / Dual-Channel Networked AV Encoder / Decoder

Solutions Setup and Configuration Guide

AT-OMNI-232 AT-OMNI-311 AT-OMNI-111 AT-OMNI-121 Atlona Manuals AT-OMNI-324 AT-OMNI-112 AT-OMNI-122 **Networked AV**



Version Information

Version	Release Date	Notes
1	02/19	Initial release
2	03/19	Audio added
3	03/19	USB added
4	05/19	Added Network Switch Configuration, IR Control



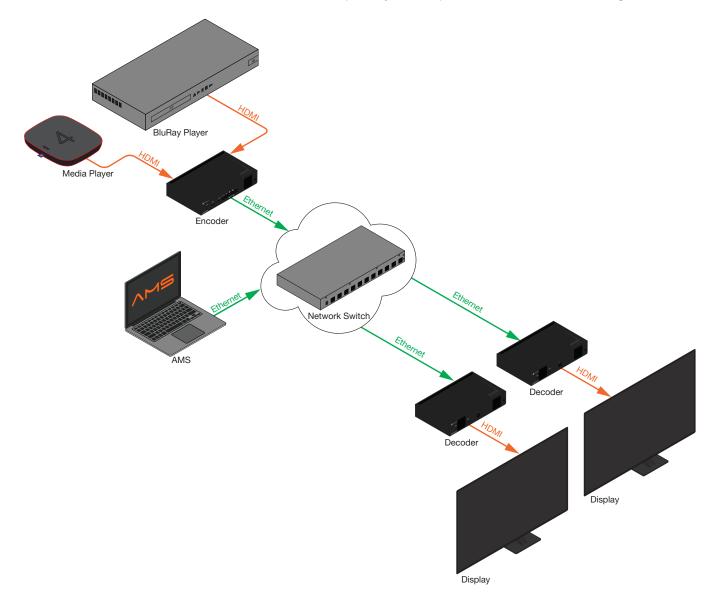
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Introduction

This guide provides a base for setting up and configuring a small OmniStream[™]-based solution. The setup instructions will provide information for building a system capable of sending and receiving audio and video through OmniStream[™] encoders and decoders, as well as a simple way to set up video walls and audio routing.





Getting Started

Selecting a Network Switch

A network switch will be needed to power and pass IP traffic. A list of certified switches is provided below with download links for prebuilt configurations. Atlona recommends using a switch from the certified list to ensure compatibility.

Certified Switcher	Download	Configuration
Cisco SG300-10MPP	Box Download Link	The default configuration can be found within the
Cisco SG300-28MP	Box Download Link	OmniStream Certified Network Switches document that can be found at https://atlona.com/pdf/
Cisco SG300-52MP	Box Download Link	OmniStream_Certified_Switches.pdf.
Cisco SG350-10MP	Box Download Link	
Cisco SG350-28MP	Box Download Link	
Cisco SG350-52MP	Box Download Link	
Cisco SG550X-24MP	Box Download Link	
Cisco SG550X-48MP	Box Download Link	
Pakedge S3L-24P	Box Download Link	
Luminex GigaCore 26i	Box Download Link	
Ruckus ICX 7150-48ZP	Box Download Link	
Ubiquiti ES-48-500W /ES-48-750W	Box Download Link	

AMS - Purchase or Download

For configuration of the OmniStream devices, AMS (Atlona Management System) will be needed. AMS has two options: AT-AMS-HW hardware or AT-AMS-SW free software. AT-AMS-HW can be purchased at: <u>https://atlona.com/product/at-ams-hw/</u> or AT-AMS-SW free software can be downloaded from <u>https://atlona.com/product/at-ams-sw/</u>. AMS will be needed before progressing further into setup and configuration.

Recommendations

If using multiple of the same OmniStream devices, or for reference, labeling can be used. It's best to place the label on the front of the device for visibility. When labeling, notate the last 4 numbers of the MAC address, found on the bottom of the unit on the label, for easier IP discovery and notation later. Use a component surge suppressor with line conditioning for best results.



IMPORTANT: Atlona's warranty does not cover damage due to electrical disturbances. A component surge suppressor with line conditioning is highly suggested, especially in areas with electrical storms.



Connections

Initial connections can be done without installing the devices in their final spots. Have at least one source and display available to ensure video is passing between OmniStream devices.

- 1. Connect all devices to the network switch using a CAT5e or higher cable. OmniStream devices will need to be plugged into the PoE ports.
- 2. Have at least one source and display ready to connect to any of the OmniStream devices.
- 3. *Optional* If using the AT-AMS-HW, connect it to the network switch.
- 4. Once all the devices are connected to the network switch, connect the switch power supply to the power strip.
- 5. *Optional* Once the switch is booted, connect the power supply to the AT-AMS-HW and power strip.
- 6. *Optional* If using the AT-OMNI-311, connect the USB B to USB A cable to the USB port of the PC, that will provide the 5V power.
- 7. *Optional* If using the AT-OMNI-324, connect the power supply from the unit to the power strip.



Getting Started

Before working with the OmniStream devices, the network switch must be set up. This guide will provide instructions for configuring a Cisco SG350X-24MP switch. The following steps will be the similar for most Cisco switches. However, there may be small variations, depending on the switch model. Consult the switch User Manual for more information.



IMPORTANT: The Network Switch Configuration chapter is divided into five sections. Each section must be followed in the order listed below. Deviating from this order, or skipping steps within a section, may result in unpredictable switch operation.

- Getting Started
- VLAN Setup
- IPv4 Interface Setup
- Setting IP Multicast
- Setting up User Accounts
- 1. Connect a PC or laptop to the network switch. It is best to you whichever port will remain on VLAN1 of the switch to avoid the PC losing connection when settings are changed on the switch.
- 2. Go into the computer settings and change the IP of the PC to be on the same range as the switch.



NOTE: If the IP address of the network switch is 192.168.1.254, then the computer should be set to 192.168.1.xx, where xx represents values from 1 to 253, as long as that IP address is not already assigned on that network. The default IP address for all Cisco switches is 192.168.1.254/24.

3. Launch the desired web browser and enter the IP address of the network switch into the address field, then press [ENTER].

cisco Switch	Application: Switch Management 🤟	
	Username:	
	Password:	
	Language: English 🗸	
	Log In Secure Browsing (HTTPS)	
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United States and certain other countries.	ngo are registered trademanis of trademanis of oracle oparenta, inc. and/or its animates in the	

4. Enter the username and password. The default login credentials are as follows:

Username: cisco Password: cisco



5. Click the **Login** button.

The switch will most likely require a new password to be assigned, before going further. This step may vary depending on the network switch. Enter the desired password, as required.

ululu cisco SG350X-24	MP 24-Port Gigabit PoE Stackable Managed Switch	cisco switchdel	e: English	×	Basic	✓ Logout S	NA About Help
01	Change Password						
	Please change your password from the default settings for better protection of your network						
	The minimum requirements are as follows: • Cannot be the same as the current password. • Minimum length is 8. • Minimum number of character classes is 3. Character classes are upper case, lower case, numeric, and special characters.						
	New Password Configuration						
	Old Password:						
	New Password:						
	Confirm Password:						
	Password Strength Meter: Strong Password Strength Enforcement: Disable						

- 6. Click the **Apply** button to commit changes.
- 7. The **Getting Started** page will be displayed.

າ]າງ] ເເຮເວ SG350X-24	MP 24-Port Gigabit PoE Stackable I	Managed Switch	cisco switchde6945 Language <mark>English</mark>	✓ Display Mode: Advanced ✓ Logout SNA About Help Q
Getting Started Dashboard	Getting Started			
Configuration Wizards Search	This page provides easy steps to configure your device			
Status and Statistics Administration	💊 Initial Setup	👷 Quick Access		
Port Management Smartport VLAN Management Spanning Tree MAC Address Tables Muticast IP Configuration Security Access Control	Manage Stack Change Management Applications and Services Change Device IP Address Create VLVN Configure Port Settings Device Status System Summary	Change Device Password Upgrade Device Sonthaire Backup Device Configuration Create IM-C-Based ACL Create IP-Based ACL Configure QOS Configure SPAN		
Quality of Service SNMP	Port Statistics RNON Statistics View Log Other resources: Support Forums			
	Do not show this page on startup			
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VLAN Setup

8. Click the **Display Mode** drop-down list, near the upper-right hand corner of the screen, and select **Advanced**.

cisco SG350X-24	MP 24-Port Gigabit PoE Stackable	Managed Switch	cisco switchde6945	Language: English	Display Mode: Basic Basic Basic	۹ م
Getting Started					Advan	ced
Dashboard	Getting Started					
Configuration Wizards						
Search	This page provides easy steps to configure your device					
 Status and Statistics 	Sinitial Setup	Quick Access				
 Administration 						
 Port Management 	Manage Stack	Change Device Password				
 Smartport 	Change Management Applications and Services	Upgrade Device Software				
VLAN Management	Change Device IP Address	Backup Device Configuration				
 Spanning Tree MAC Address Tables 	Create VLAN	Create MAC-Based ACL				
MAC Address Tables Multicast		anage Stack Change Device Password Upgrade Device PAssword Upgrade Device PAdress Range Device IP Address Backup Device Configuration Create Much-Based ACL Create IP-Based ACL Configure QoS evice Status status Status Configure Constant Configure Constant Constant Configure Constant Configure Constant Constant Configure Constant Configure Constant Constant Configure Constant Cons				
IP Configuration						
 Security 	Device Status	Conligue dos				
 Access Control 						
Quality of Service						
	RMON	✓ Display Mode	Basic Basic Advanced	Logout S	NA About	
© 2011-2018 Cisco Systems, Inc. A	II Rights Reserved.					

 Select VLAN Management from the menu on the left side of the screen. The VLAN Management menu will expand and the VLAN Settings page will be displayed. If the VLAN Setting page is not displayed, click VLAN Management > VLAN Setting to display the page.

By Default, VLAN 1 is active. If the network is self-contained, skip to 15. Otherwise, continue with the next step.

10. Click the **Add...** button. The **Add VLAN** dialog will be displayed. The purpose of creating a VLAN is to separate a network into separate logical areas / broadcast domains. In this case, the VLAN is created to isolate AV-over-IP traffic from normal network traffic.

cisco SG350X-24	tMP 24-Port Gigabit PoE Stackable Managed Switch
Getting Started Dashboard	VLAN Settings
Configuration Wizards	VLANTable
Search	VLAN ID VLAN Name Originators VLAN Interface State Link Status
 Status and Statistics 	SNMP Traps
 Administration 	1 Default Enabled Enabled
Port Management	Add. Edt. Delete
Smartport	Add VLAN - Google Chrome - X
✓ VLAN Management	Not secure 192.168.0.117/csd8Ba7fd/Vmember/bridg_vlan_properties_a.htm
VLAVISatinos Interfaces Settings Port to VLAN Port VLAN Membership > VLAN Translation Private VLAN Settings GVRP Settings > VLAN Groups > VLAN GROUP	VLAN VLAN ID: (Range: 2 - 4094) VLAN Name: (0/32 characlers used) VLAN Interface State:



11. Enter the numerical ID of the VLAN in the **VLAN ID** field. This value is required and must be within the range of 2 to 4094.



NOTE: VLAN 1 is the Cisco default VLAN. This VLAN can be used, but it cannot be modified or deleted.

12. OPTIONAL: Enter a name for the VLAN in the **VLAN Name** field. For example, the name of the VLAN could be used to identify a department, within a company, which uses that broadcast domain. In this example, "OmniStream" has been assigned as the name of VLAN 5.

🗋 Add VLAN - Google Chrome		_		×				
A Not secure 192.168.0.117/csd8f3a7	A Not secure 192.168.0.117/csd8f3a7fd/Vmember/bridg_vlan_properties_a.htm							
VLAN								
VLAN ID: 5	(Range: 2 - 4094)							
VLAN Name: OmniStream	(10/32 characters used)							
VLAN Interface State: 🗹 Enable								
Link Status SNMP Traps: 🕑 Enable								
Range								
☆ VLAN Range:	-	(Rang	e: 2 - 409	94)				
Apply Close								

13. Click the **Apply** button to commit changes. If the VLAN was successfully created, the dialog box will display a "Success" message.

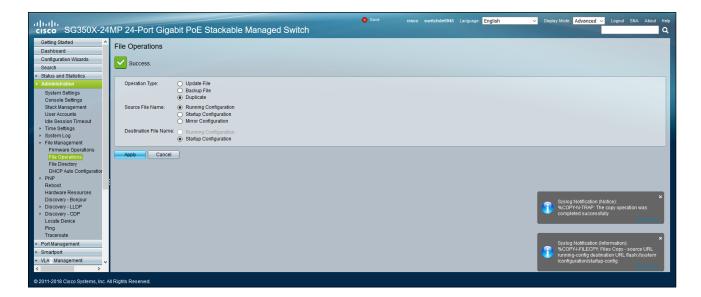
Success. To permanently save the click the Save icon.	configuration, go to the Copy/Save Configuration page or
VLAN	
VLAN ID:	(Range: 2 - 4094)
VLAN Name:	(0/32 characters used)
VLAN Interface State: 🖉 Enable	
Link Status SNMP Traps: 🖉 Enable	
Range	
✤ VLAN Range:	- (Range: 2 - 4094)
Apply Close	



- 14. Repeat steps 11 through 13 to create as many VLANs as needed. If no additional VLANs are required, click the **Close** button to dismiss the **Add VLAN** dialog box.
- 15. Click **Administration**, in the left-hand menu bar and select **File Operations**. The **File Operations** page will be displayed.
- 16. Click the **Duplicate** radio button, next to **Operation Type**.

cisco SG350X-24	MP 24-Port Gig	abit PoE Stackat	e Managed Switch		cisco switchde6945 Language: <mark>English</mark>	✓ Display Mode: Advanced ✓	Logout SNA A	About Help
Discovery - Bonjour ∧ ▶ Discovery - LLDP	File Operations							
 Discovery - CDP Locate Device Ping Traceroute 	Operation Type:	Update File Backup File Duplicate						
Port Management Smartport	Destination File Type							
VLAN Management Spanning Tree		 Logging File Language File 						
MAC Address Tables Multicast Properties	Copy Method:	HTTP/HTTPS USB Internal Flash	Operation Type:	0	Update File			
MAC Group Address IP Multicast Group Address		O TFTP O SCP (File transfer via SS		0	Backup File			
 IPv4 Multicast Configuration IGMP Snooping IGMP Interface Settings 	G File Name:	Browse No file selecte		۲	Duplicate			
IGMP VLAN Settings IGMP Proxy ► IPv6 Multicast Configuratio	Apply Callo	a1	Destination File Type:		Running Configuration	1		
IGMP/MLD Snooping IP Mu Multicast Router Port Forward All				Õ	Startup Configuration		_	
Unregistered Multicast IP Configuration				0	Mirror Configuration		_	
< >	II Rights Reserved.			0	Logging File			
				\cap	Longuago Eilo			

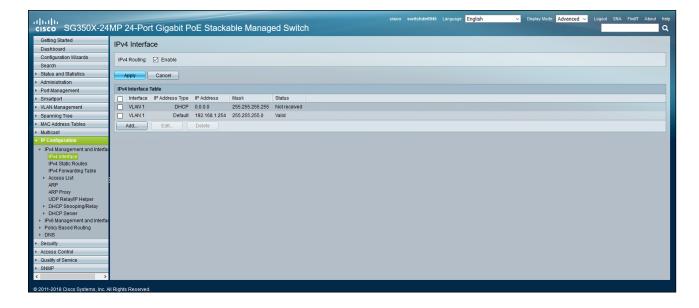
17. Click the **Apply** button to commit changes.





IPv4 Interface Setup

18. Click **IP Configuration** in the left-hand menu bar and select **IPv4 Interface**. The **IPv4 Interface** page will be displayed.



19. Click the check box next to **VLAN 1** (DHCP) and then click the **Delete** button.

cisco SG350X-24MP 24-P	© Save cisco switchde6945 Language English ✓ Deplay Mode Advanced ✓ Logout SVA Findit About Port Gigabit PoE Stackable Managed Switch	Hel
Search Search Status and Statistics Administration Port Management Smartport Spanning Tree VLAN Spanning Tree VLAN Spanning Tree VLAN Add. VLAN Address Tables VLAN Add. VLAN Add. VLAN Add. VLAN Add. VLAN Add. VLAN Add. Add. Add. Add. Add. Add. Add. Ad	Enable Cancel Cancel Cancel Concel Co	
ARP ARP Proxy UDP Relay/P Helper > DHCP Server > IPV5 Management and Interfas > Policy Based Routing > DNS > Security > Access Control > Quality of Service > SNMP < 2011-2018 Cisco Systems, Inc. All Rights Reser	IPv4 Interface IPv4 Routing: Enable Apply Cancel IPv4 Interface Table	
	Interface IP Address Type IP Address Mask Status	
	✓ VLAN 1 DHCP 0.0.0.0 255.255.255.255 Not received □ VLAN 1 Default 192.168.1.254 255.255.255.0 Valid	
	Add Edit Delete	
	Delete	



- 20. Check the IP settings for VLAN 1. If no changes are required, continue with Step 4. However, if a different IP address or subnet mask need to be specified, then follow the steps below:
 - a. Click the check box next to VLAN 1.
 - b. Click the Edit button.

رابیان دisco SG350X-24	MP 24-Port Gigabit PoE Stac	kable Managed Switch	cisco switchde694	5 Language: <mark>English v</mark> Dis	olay Mode: Advanced 🗸 Logout SNA Fin	dfT About Help
Cetting Stated Dashboard Configuration Wizards Search > Status and Statistics > Administration > Port Management > Stanuport > VLAN Management > Spanning Tree	IPv4 Interface ✓ Success. To permanently save the configuration, go to the File Operations page or click the Save icon. IPv4 Routing: Enable Apply Cancel IPv4 Interface Table Interface IP Address Type IP Address Mask Status ✓ Nucl. IPv4 Interface Table ✓ Nucl. IPv4 address Type IP Address Mask Status ✓ Nucl. IPv4 Interface Table ✓ Mad. Eatl.					
MAC Address Tables Multicast UP Configuration IPV4 Management and Interfa IPV4 Interface IPV4 Static Routes IPV4 Fatic Routes IPV4 Forwarding Table Access List ARP						
ARP Proxy UDP RelayIP Helper > DHCP SnoopingRelay > DHCP Server > IPv6 Management and Interfa > Policy Based Routing > DNS > Security > Access Control > Quality of Service	Apply Cancel					
SNMP SNMP S011-2018 Cisco Systems, Inc.	IPv4 Interface Table					
		Interface	IP Address Type	IP Address	Mask	Status
		VLAN 1	Default	192.168.1.254	255.255.255.0	Valid
		Add	Edit	Delete		

- c. The Edit IP Interface dialog will be displayed.
- d. Make make the required changes, then click the Apply button to commit changes.
- e. Click the Close button to dismiss the Edit IP Interface dialog box.

😆 Edit IP Interface - Mozilla Firefo		_		×		
(1) 192.168.1.254 /cs7d5e0f	æ_e_jq.htm	•••	⊠ ☆	-0		
Interface:	VLAN 1 🗸					
IP Address Type:	 Dynamic IP Address Static IP Address 					
IP Address:	192.168.1.254					
🌣 Mask:	 Network Mask Prefix Length 	255.255.255.0	(Range: 8 - 30)			
Renew IP Address Now:	Enable					
Auto Configuration via DHCP:	Disabled					
Apply Close						



- 21. Click the Add... button. The Add IP Interface dialog box will be displayed.
- 22. Click the VLAN radio button, then click the drop-down list to select the VLAN that was created under VLAN Setup (page 9).
- 23. Click the Static IP Address radio button.



NOTE: It is recommended that a static IP address be assigned to a VLAN, to avoid IP changes.

- 24. Enter the IP address of the VLAN, in the **IP Address** field. In the example below, 10.1.1.254 is used. However, any available IP address in the pool may be used.
- 25. Click the **Network Mask** radio button and enter the subnet mask. In this example, 255.255.254.0 is used. However, depending upon the requirements, any valid network mask may be used.

	cisco switchde6845 Language: English v Display Mode: Advanced v Logout SNA FindT About Heb
Cetting Started Dashboard Configuration Witzards Search Administration Port Management VLAN Management VLAN Management VLAN Management MAC Address Tables VLAN Multicast UPV Statistic Routes UPV Statistic Routes UPV Statistic Routes UPV Programma and Interface UPV Programma and Interface VDP Relay/6 Halper VDP Relay/6 Hal	IPv4 Interface IPv4 Routing Cancel IPv4 Routing Cancel IPv4 Interface IP Address Mask Status Interface IP Address Type IP Address Mask Status VAAI Status IP2.168.1254 /25.255.255.0 Valid Add. Edit Interface: Unit IP of EE LAG I @ VLAN 5V C Loopback IP Address Type: Dnamic IP Address @ Status IP Address @ IP Address II [01.1254 @ Mask @ Network Mask 255.255.254.0 @ Prefx Length @ (Range 8 - 30) @ Prefx Length @ (Prefx L
Access Control Ousity of Senice SNMP SNMP O2011-2018 Cisco Systems. Inc. Al	Interface: O Unit 1 Port GE1 O LAG 1 O VLAN 5 O Loo IP Address Type: O Dynamic IP Address Static IP Address ID Address: 10.1.1.254 Mask: Network Mask 255.255.254.0 Prefix Length (Range: 8 - 30)

- 26. Click the Apply button to commit changes. Repeat Steps 4 through 9 for each additional VLAN, as necessary.
- 27. After all VLANs have been set up, click the Close button to dismiss the Add IP Interface dialog box.
- Click Administration > File Operations in the menu bar on the left side of the screen. The File Operations
 page will be displayed.
- 29. Click the **Duplicate** radio button, next to **Operation Type**. Refer to the next page for more information.



،،ا،،،ا،، دוגدە SG350X-24	4MP 24-Port Gigabit PoE Stackable Managed Switch	Save cisco switchde6945 Language English V Display Mode Advanced Logout SNA About Hele
Discovery - Bonjour > Discovery - LLDP > Discovery - CDP	File Operations Operation Type: Update File	
Locate Device Ping Traceroute	Bactup File Duplicate Destination File Type: Running Configuration	
Port Management Smartport VLAN Management	Startur Configuration Mirror Configuration Configuration Configuration	
Spanning Tree MAC Address Tables Multicast Properties MAC Group Address IP Multicast Group Address	Capy Method: OHTTP/HTTPS OBB OInternal Flash TTTP TTTP SCP (File transfer via SSH)	File Operations
 IPVA Multicast Group Audress IPVA Multicast Configuratio IGMP Snooping IGMP Interface Settings IGMP VLAN Settings IGMP Proxy IPV6 Multicast Configuratio IGMPANLD Snooping IP Mu Multicast Router Port Forward All 	d File Name: Browse No file selected.	Operation Type: O Update File Backup File Duplicate
Unregistered Multicast IP Configuration	All Rights Reserved.	Source File Name: Running Configuration Startup Configuration Mirror Configuration
		Destination File Name: O Running Configuration Startup Configuration
		Apply Cancel

30. Click the **Apply** button to commit changes.

cisco SG350X-24	MP 24-Port Gigabit PoE Stackable Managed Switch	Save cise	co switchde6945	Language: English 🗸 🗸	Display Mode: Advanced 🗸	Logout SNA Abou	t Help Q
Getting Started Dashboard Configuration Wizards Search Estatus and Statistics	File Operations						
Administration System Settings Console Settings Stack Management User Accounts Idel Session Timeout Time Settings System Log File Management	Operation Type: Operation Type: Opulcate Source File Name: Narrup Configuration Mirror Configuration Mirror Configuration Destination File Name: Startup Configuration @ Startup Configuration						
Filmware Operations File Operations File Directions DHCP Auto Configuration P PNP Reboot Hardware Resources Discovery - Bonjour Discovery - Bonjour Discovery - COP Locate Device Pino	Apply Cancel				Syslog Notification (Notic %COPY-N-TRAP: The co completed successfully	te): py operation was Show log	×
Fing Traceroute Port Management Smartport VLA' Management Output Outpu	N Fildhts Reserved.				Systog Notification (Infor %COPY-FILECPY Files running-config destinatio /configuration/startup-cor	Copy - source URL in URL flash://system	



Configuring IP Multicast

31. Click **Port to VLAN** from the **VLAN Management** menu. By default, the **Membership Type**, for each physical port (interface), is assigned as **Untagged**.

dollo				cisco switchde6945 Language: <mark>English v</mark> Display Mode: <mark>Advanced v</mark> Logout SNA FindIT About
cisco SG350X-24	MP 24-Port	Gigabit	PoE Stacka	ble Managed Switch
Getting Started	Port to VLAN			
Dashboard		·		
Configuration Wizards	VLAN Memberst	nip Table		Showing 1-28 of 28 All 😺 perpage
Search	Filter VLAN ID e	equals to 1		
Status and Statistics			als to Port of Unit 1	
Administration				
Port Management	Interface Name		Membership Type	PVID
Smartport	GE1	Access	Untagged 🧹	
 VLAN Management 	GE2	Access	Untagged 🧹	
VLAN Settings	GE3	Access	Untagged 🗸	
Interface Settings Port to VLAN	GE4	Access	Untagged 🗸	
Port VLAN Membership	GE5	Access	Untagged 🗸	
 VLAN Translation 	GE6	Access	Untagged 🗸	
Private VLAN Settings	GE7	Access	Untagged 🗸	
GVRP Settings	GE8	Access	Untagged 🗸	
 VLAN Groups Voice VLAN 	GE9	Access	Untagged 🤍	
 Access Port Multicast TV VI 	GE10	Access	Untagged 🗸	
Customer Port Multicast T\	GE11	Access	Untagged 🗸	
Spanning Tree	GE12	Access	Untagged 🗸	
MAC Address Tables	GE13	Access	Untagged 🗸	
 Multicast 	GE14	Access	Untagged 🗸	
 IP Configuration 	GE15	Access	Untagged 🗸	
< >	GE16	Access	Untagged 🗸	

- 32. Click the VLAN ID equals to drop-down list and select the VLAN ID that was created under VLAN Setup (page 9).
- 33. Leave the AND Interface Type equals to drop-down list as Port of Unit 1. Click the Go button.

cisco SG350X-24	MP 24-Port Gigabit PoE Stackable Managed Switch
Getting Started	Port to VLAN
Dashboard Configuration Wizards	VLAN Membership Table Showing 1-28 of 28 All 🔍 per page
Search	Filter VLAN/D equals to 1
 Status and Statistics 	
 Administration 	AND Interface Type 1 to Port of Unit 1 Go
 Port Management 	Interface Name VLAN Mode Internetship Type PVID
Smartport VLAN Management	GE1 Access Unlaged v S GE2 Access Unlaged v T
VLAN Management VLAN Settings	GE2 Access Unlagged V P Port to VLAN
Interface Settings	
Port to VLAN	CL-4 ALCES CHIEge C 2
	VLAN Membership Table
	Filter VLAN ID equals to 1
	AND Interface Type 1 to Port of Unit 1 Go
	Interface Name VLAN Mode Rembership Type PVID
	GE1 Access Untagged 🗸
	GE2 Access Untagged 🗸
	GE3 Access Untagged 🗸
	GE4 Access Untagged 🗸
	GE5 Access Untagged V



34. The **Membership Type**, for the VLAN, will automatically be assigned as **Excluded** for each physical port on the switch.

cisco SG350X-24	MP 24-Port	Gigabit	PoE Sta	icka	cisco switchde6945 Languege: English v Display Mode: Advanced v Lopout SNA FirstT Abou	out He					
Getting Started ^ Dashboard	Port to VLAN	ort to VLAN									
Configuration Wizards	VLAN Membersh	hip Table			Showing 1-28 of 28 All 🗾 per pag	je					
Search	Filter VLAN ID e	equals to 5	5								
Status and Statistics Administration		erface Type equa		Unit 1	v G0						
 Port Management 	Interface Name	VLAN Mode	Membership T	Туре	PVD						
 Smartport 	GE1	Access	Excluded	~							
 VLAN Management 	GE2	Access	Excluded	~							
VLAN Settings	GE3	Access	Excluded	~							
Interface Settings	GE4	Access	Excluded	~							
Port to VLAN Port VLAN Membership	GE5	Access	Excluded	\sim							
 VLAN Translation 	GE6	Access	Excluded	~							
Private VLAN Settings	GE7	Access	Excluded	\sim							
GVRP Settings	GE8	Access	Excluded	~							
 VLAN Groups Voice VLAN 	GE9	Access	Excluded	\sim							
 Access Port Multicast TV VI 	GE10	Access	Excluded	\sim							
Customer Port Multicast T\	GE11	Access	Excluded	~							
< >	GE12	Access	Excluded	~							

35. Determine which physical ports will use the selected VLAN. Click the **Membership Type** drop-down list for each physical port that will use the VLAN, and set its value to **Untagged**. For example, if physical ports 6 and 7 will be used for VLAN 5, then set the **Membership Type** for these two ports to **Untagged**.

Port to VLAN							
VLAN Memberst	VLAN Membership Table						
Filter VLAN ID equals to 5 -							
AND Interface Type equals to Port of Unit 1 🗸 Go							
Interface Name	VLAN Mode	Membership Type PVID					
GE1	Access	Excluded 🗸					
GE2	Access	Excluded					
GE3	Access	Untagged					
GE4	Access	Multicast TV VLAN					
GE5	Access	Excluded 🗸					

36. Scroll to the bottom of the list of ports and click the **Apply** button. Success messages will appear at the top and bottom right of the screen.



VLAW Setungs				
Interface Settings	GE1	Access	Excluded 🗸	
Port to VLAN	GE2	Access	Excluded 🗸	
Port VLAN Membership	GE3	Access	Excluded 🗸	
VLAN Translation	GE4	Access	Untagged 🗸	
Private VLAN Settings GVRP Settings	GE5	Access	Untagged 🗸	
► VLAN Groups	GE6	Access	Untagged 🗸	
▹ Voice VLAN	GE7	Access	Untagged 🗸	
 Access Port Multicast TV VI 	GE8	Access	Untagged 🗸	
 Customer Port Multicast T\ 	GE9	Access	Untagged 🗸	
Spanning Tree	GE10	Access	Untagged 🗸	
MAC Address Tables	GE11	Access	Excluded ~	
Multicast	GE12	Access	Excluded ~	
IP Configuration	GE13	Access	Excluded ~	
 IPv4 Management and Inte IPv4 Interface 	GE14	Access	Excluded ~	
IPv4 Static Routes	GE15	Access	Excluded ~	Custon Malifernian (Malian)
IPv4 Forwarding Table	GE16	Access	Excluded ~	Syslog Notification (Notice): %COPY-N-TRAP: The copy operation was
 Access List 	GE17	Access	Excluded 🗸	completed successfully
ARP ARP Proxy	GE18	Access	Excluded ~	Snow logs
UDP Relay/IP Helper	GE19	Access	Untagged 🗸	
DHCP Snooping/Relay	GE20	Access	Excluded ~	× Syslog Notification (Information):
DHCP Server	GE21	Access	Excluded 🗸	%COPY-I-FILECPY: Files Copy - source URL
 IPv6 Management and Inte Policy Based Routing 	GE22	Access	Excluded ~	running-config destination URL flash://system /configuration/startup-config
< > >	GE23	Access	Excluded 🗸	Show logs
© 2011 2019 Cisco Systems Inc. All	Diable Deser			



37. Click **Multicast** from the menu bar on the left side of the screen. The **Properties** window will automatically be displayed.

່ມ]ມ.]ມ ເເຣເວ SG350X-24	MP 24-Port Gigabit	PoE Stackable Managed Switch	ci	isco switchde6945	Language: English	✓ Display Mode: Adv	ranced ~ Log	jout SNA	About Help
Discovery - Bonjour Discovery - LLDP Discovery - CDP	Properties								
Locate Device Ping Traceroute	Bridge Multicast Filtering Statu VLAN ID:	I ✓							
 ▶ Port Management ▶ Smartport 	Forwarding Method for IPv6:	MAC Group Address IP Group Address							
VLAN Management Spanning Tree MAC Address Tables	Forwarding Method for IPv4:	Source Specific IP Group Address MAC Group Address IP Group Address							
✓ Multicast Properties		Source Specific IP Group Address							
MAC Group Address IP Multicast Group Address <	Apply Cancel								
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- 38. Click the Enable box, next to Bridge Multicast Filtering Status, to enable this feature.
- 39. Click the **IP Group Address** radio button, under both **Forwarding Method for IPv6** and **Forwarding Method for IPv4**.

Properties	
Bridge Multicast Filtering Statu	is: 🔽 Enable
VLAN ID:	
Forwarding Method for IPv6:	MAC Group Address IP Group Address Source Specific IP Group Address
Forwarding Method for IPv4:	MAC Group Address IP Group Address Source Specific IP Group Address
Apply Cancel	

- 40. Click the **Apply** button to commit changes.
- 41. Repeat steps 38 and 39 for each VLAN.
- 42. Click IGMP Snooping, under IPv4 Multicast Configuration, from the menu bar on the left side of the screen.

Smartport VLAN Management		Apply Cancel IGMP Snooping IP Multicast Group							
 Spanning Tree 		IGM	P Snooping	Table					
MAC Address Tables			Entry No.	VLAN ID	IGMP Snooping	Status	MRouter Ports	Immediate	Last Membe
 Multicast 	L				Administrative	Operational	Auto Learn	Leave	Query Counte
Properties	L	0	1	1	Disabled	Disabled	Enabled	Disabled	:
MAC Group Address IP Multicast Group Address	L		Copy Sett	ings	Edit				
 IPv4 Multicast Configuratio 	L								
IGMP Snooping	1								
< >									
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- 43. Click the check box next to IGMP Snooping, to enable this feature.
- 44. Click the **Apply** button to commit changes.

IGMP Snooping
IGMP Snooping is only operational when Bridge Multicast Filtering is enabled. Bridge Multicast Filtering is currently enabled
IGMP Snooping Status: 🗹 Enable IGMP Querier Status: 🔽 Enable
Apply Cancel IGMP Snooping IP Multicast Group

45. Click the radio button next to VLAN 1, as shown below, in the IGMP Snooping Table.

ahah	😵 Save cisco switchde6945 Language: <mark>English v</mark> Display Mode <mark>Advanced v</mark> Logout SNA About Hel									
cisco SG350X-24	4MP 24-Port Gigabit PoE Stackable Managed Switch									
Discovery - Bonjour	IGMP Snooping									
 Discovery - CDP Locate Device 	Success. To permanently save the configuration, go to the File Operations page or click the Save icon.									
Ping Traceroute	IGMP Snooping is only operational when Bridge Multicast Filtering is enabled. Bridge Multicast Filtering is currently enabled.									
Port Management Smartport	IGMP Snooping Status: 🖂 Enable									
 VLAN Management Spanning Tree 	IGMP Querier Status: 🖸 Enable									
MAC Address Tables	Apply Cancel IGMP Snooping IP Multicast Group									
Multicast Properties	KMP Snopping Table									
MAC Group Address IP Multicast Group Address	Entry No. VLAN ID IGMP Snooping Status MRouter Ports Immediate Last Member IGMP Querier Status IGMP Querier IGMP Querier Querier Administrative Operational Auto Leam Leave Query Counter Administrative Operational Election Version IP Address									
 IPv4 Multicast Configuratio IGMP Snooping 	O 1 1 Disabled Disabled Disabled 2 Disabled Enabled V2									
IGMP Interface Settings V	Copy Settings Edit									
< >										

46. Click the Edit... button to display the Edit IGMP Snooping Settings dialog box.

😫 Edit IGMP Snooping Settings -	Mozilla Firefox			×
i 192.168.1.254/csafa6210	:4/multicast/igmp_snooping_e_jq.htm	•••	⊠ 1	☆ ≦
VLAN ID: IGMP Snooping Status: MRouter Ports Auto Learn: Immediate Leave: & Last Member Query Counter:	1 ✓ □ Enable ✓ Enable □ Enable ● Use Query Robustness (2)			
	O User Defined (Range: 1 - 7)			
IGMP Querier Status:	Enable			
IGMP Querier Election:	C Enable			
IGMP Querier Version:	 ● v2 ○ v3 			
Querier Source IP Address:	 Auto User Defined 192.168.1.254 			
Apply Close				



- 47. Click the **Enable** checkboxes next to **IGMP Snooping Status**, **Immediate Leave**, and **IGMP Querier Status**. Make sure each of these checkboxes display a checkmark. Leave the rest of the settings as they are.
- 48. Click the Apply button to commit changes.

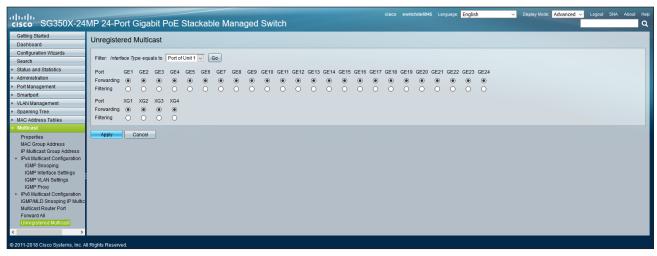
🚯 Edit IGMP Snooping Settings - Mozilla Firefox			×
192.168.1.254/csafa621c4/multicast/igmp_snooping_e_jq.htm	•••	☆	-0
VLAN ID: 1 IGMP Snooping Status: Imable MRouter Ports Auto Learn: Enable Immediate Leave: Enable Immediate Leave: Enable User Defined (Range: 1-7)			
IGMP Querier Status: IGMP Querier Election: IGMP Querier Version: Querier Version: Querier Source IP Address: O User Defined 192.168.1.254 ✓			
Apply Close			

- 49. Click the VLAN ID drop-down list, and select the next VLAN ID number. Repeat steps 17 and 18 for each VLAN that was created.
- 50. Click the Close button to dismiss the Edit IGMP Snooping Settings dialog.
- 51. Click **Administration** > **File Operations** in the menu bar on the left side of the screen. The **File Operations** page will be displayed.
- 52. Click the **Duplicate** radio button, next to **Operation Type**, then click the **Apply** button to commit changes.

սիսիս	😵 Save cisco switchde6945 Language <mark>English v</mark> Display Mode <mark>Advanced v</mark> Logout SNA About He
cisco SG350X-24MP 24-Port Gigabit PoE Stackable Manac Discovery-Bonjour Discovery-LLDP	File Operations
Discovery - COP Locate Device Ping Traceroute Port Management Vert Management Vert Management Compared Part Compared Part	Operation Type: O Update File O Backup File
Spanning Tree MaC Address Tables Multicast More Address MAC Group Address MAC Add	Ouplicate Source File Name: O Running Configuration Startup Configuration Mirror Configuration
ICMP VLAN Settings ICMP Provy ICMP Provy ICMP Adulticast Configuration ICMP Adulticast Router Port Forward All Unregistered Multicast Configuration	Destination File Name: O Running Configuration Startup Configuration
© 2011-2018 Cisco Systems, Inc. All Rights Reserved.	Apply Cancel



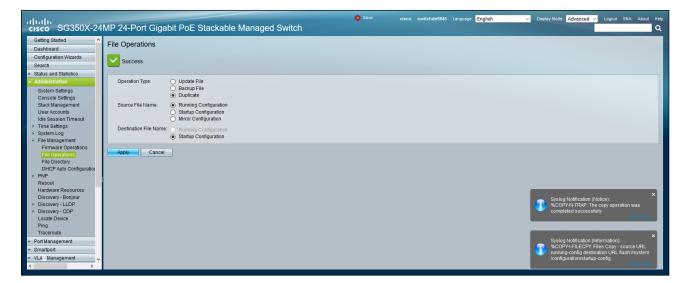
53. Click **Unregistered Multicast** from the **Multicast** menu on the left side of the screen. By default, all physical ports will have port forwarding enabled, as shown below.



- 54. Click the Filtering radio button to assign port filtering to each port.
- 55. Click the **Apply** button to commit changes.

Jnregistered Multicast																								
Filter: Interfac	се Тур	pe equa	als to	Port of	Unit 1	<u>~</u> (Go																	
Port (GE1	GE2	GE3	GE4	GE5	GE6	GE7	GE8	GE9	GE10	GE11	GE12	GE13	GE14	GE15	GE16	GE17	GE18	GE19	GE20	GE21	GE22	GE23	GE24
Forwarding	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Filtering	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲	۲
Port >	XG1	XG2	XG3	XG4																				
Forwarding	0	0	0	0																				
Filtering	۲	۲	۲	۲																				

- 56. Click **Administration** > **File Operations** in the menu bar on the left side of the screen. The **File Operations** page will be displayed.
- 57. Click the **Duplicate** radio button, next to **Operation Type**, then click the **Apply** button to commit changes.





Creating User Accounts

This next section is optional, and provides instructions on creating user accounts. This is only required if multiple users will need access to the network switch.

1. Click User Accounts from the Administration menu.

່ ເງເບງເບ ເເຣເວ SG350X-24	MP	24-Port (Gigabit PoE Stackable Managed Switch	cisco	switchde694					
Getting Started	Us	er Accounts								
Dashboard										
Configuration Wizards	Pa	Password Recovery Service: 🔽 Enable								
Search										
 Status and Statistics 	Status and Statistics Cancel									
 Administration 										
System Settings	Us	ser Account Tabl								
Console Settings		User Name	User Level							
Stack Management] cisco	Read/Write Management Access (15)							
User Accounts Idle Session Timeout		Add	Edit Delete							
< Time Sattinge >										
© 2011-2018 Cisco Systems, Inc. A	All Righ	its Reserved.								

- 2. Click the **Add...** button to display the **Add User Account** dialog box.
- 3. Enter the desired username and password in the **User Name** and **Password** fields, respectively. Confirm the password by re-entering it in the **Confirm Password** field.
- 4. Click the **Read/Write Management Access** radio button, then click the **Apply** button to commit changes.
- 5. Repeat steps 2 through 4, as required, for each user.
- Click the Close button to dismiss the Add User Account dialog box and click Yes when prompted to save changes.

۷	Add User Account - Mozilla	Firefox				×				
6	🗓 🔏 192.168.1.254/cs7d5e0f3e/mts/password/security_manage_localusers_a.htm 🛛 🐨 😒 😭									
	Cannot be the same as Minimum length is 8.	racter classes is 3. Charac	ows: cter classes are upper case, lower case, ic, and special characters.							
	New User									
•	User Name:	minion	(6/20 characters used)							
	Password:	•••••	(17/64 characters used)							
	Confirm Password:	•••••								
	Password Strength Meter:		Strong							
	User Level:	 Read-Only CLI Access Read/Limited Write CL Read/Write Manageme 	Access (7)							
	Apply Close									



- 7. Click **Administration** > **File Operations** in the menu bar on the left side of the screen. The **File Operations** page will be displayed.
- 8. Click the **Duplicate** radio button, next to **Operation Type**.
- 9. Click the Apply button to commit changes.
- 10. Switch configuration is complete.

cisco SG350X-24	4MP 24-Port Gigabit PoE Stackable Managed Switch	Save eisco switchde6945 Language English v Daptay Mode: Advanced v Logout SNA About Heb
Discovery - Bonjour	File Operations	
 Discovery - CDP Locate Device Ping Traceroute 	Operation Type: Update File Dackup File Duplicate	
 Port Management Smartport 	Destination File Type: Running Configuration Startup Configuration Mirror Configuration	
VLAN Management Spanning Tree MAC Address Tables	Logging File Language File Copy Method: HTTP/HTTPS	File Operations
Multicast Properties	O USB → → → → → → → → → → → → → → → → → → →	
MAC Group Address IP Multicast Group Address V IPv4 Multicast Configuratio	O TFTP O SCP (File transfer via SSH) G File Name: Browse. No file selected.	Operation Type: O Update File
IGMP Snooping IGMP Interface Settings IGMP VLAN Settings	Apply Cancel	Backup File Duplicate
IGMP Proxy ► IPv6 Multicast Configuratio IGMP/MLD Snooping IP Mu		
Multicast Router Port Forward All Unregistered Multicast		Source File Name: Running Configuration Startup Configuration
IP Configuration <		 Startup Configuration Mirror Configuration
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		Destination File Name: Running Configuration
		 Startup Configuration
		Apply Cancel



AMS

AMS must be used for configuration of all the OmniStream devices, but before OmniStream is set up, AMS must be set up and up to date. The following instructions will walk through all the AMS set up and OmniStream discovery steps.

Getting an IP Address

AT-AMS-HW

- 1. Find the IP of the AMS-HW.
 - a. Using the HDMI port, connect an HDMI cable from the HDMI OUT port to an HDMI IN port on the local display. The unit IP will display at the bottom right hand corner of the display.
 - b. If If there is no local display, open the connected PC and do an IP scan using any IP scan program.

AT-AMS-SW

Login:

Password: admin

admin

Follow the installation steps found within the AMS-SW download file. The IP address will be displayed in the Virtual Machine window.

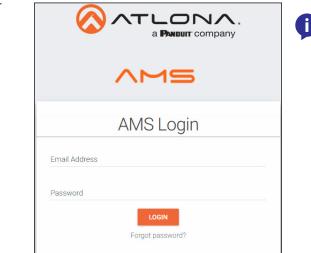
Login

Once AMS has been set up and the IP address located, it can be used to configure the OmniStream devices. Use the following steps for the initial login of AMS.

1. Open any browser and type the IP address in, as shown below.

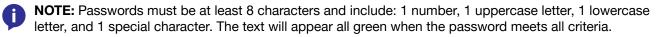
		LT		×
🚫 Products ‹ Atlona® AV S 🗙	🚫 Atlona Velocity Dashboa 🗙			
\leftarrow \rightarrow C \bigcirc Not secure $ $	192.168.X.XXX		☆ 🖸	000

2. Enter the login information on the AMS web page, then click the **Login** button. Note that the password is masked when typed.



NOTE: Once the initial log in and activation is complete, the new password should be kept somewhere easy to find. If the password is lost, use the steps found within the AMS manual to reset it.

Fill in the initial set up information, including: Company Name, current admin's First & Last name, the admin's email address, and a new password.





AMS

					* New 'admin' password	Password criteria:
						8 Characters
Thank you for using Atlon	na AMS!	Product Documentation		Updates		1 Integer
					* Confirmation Password	1 Lowercase
	come Admin	M	= 00/	TLONA		1 Uppercase
adr	min		2.0	Connecting Technology		1 Special Character
						Passwords do not ma
	Initialize AMS: Accour	t setup		MS Version Notes	* New 'admin' password	Password criteria:
	Basic Info	Login Info	Gateway Info	MS VERSION NOTES 0.0.65 (View Full Notes)		8 Characters
	* Company Name	* Primary admin email	Time Zone:	4S issue for static IP.		1 Integer
	* Primary admin first name	* New 'admin' password	Password criteria:		* Confirmation Password	1 Lowercase
	- Hinary administrative	New autim password	8 Characters 1 Integer			1 Uppercase
	* Primary admin last name	* Confirmation Password	1 Lowercase 1 Uppercase			1 Special Character
\otimes			1 Special Character	All Devices		Passwords do not ma
			_	Seem To Be Connected	* New 'admin' password	Password criteria
	_		SUBMIT			8 Characters
		0			* Confirmation Password	1 Integer
		Users				1 Lowercase
						1 Uppercase
		_				1 Special Chara
						Passwords Mat

4. Press **SUBMIT** once all information is filled.

Updating

Before discovery, it is best to ensure that AMS is on the most recent firmware.

If the PC or AMS are connected to a network with internet connectivity, AMS will automatically check for updates and give an update notification in the top right corner of the screen if behind. Select the icon and it will go directly to the Firmware tab inside the System Settings. Follow step 4 of the following update instructions.



If the PC or AMS do not have internet connectivity, the firmware can be checked and/or downloaded at <u>https://atlona.com/product/at-ams-sw/</u> under the Firmware tab. AMS's firmware version can be found at the bottom of the main screen. If a manual update is needed, go to the firmware section within Server Settings.

1. Locate the user icon in the top right corner of the home page and left click to select.

≡ 🕄 Help~	AMS:	0		
•	Welcome Agacon Balacon Buding 1 Large Contenses Bloom Buding 1 Large Contenses Bloom Large Contenses Bloom Large Contenses B	AMS Version Notes 21.52 (New Yal house) Bug Fix: Fixing de passered and je command issues	A Profile Users Account Settings Server Settings Berver Settings Week Logs AMS Version Notes 20.11.20 (New Full Notes) Fic. Finally got it. definitely	 Profile Users Account Settings
8	5 13 Devices Assigned Bences are cel	2 Devices are Office		Server SettingsView Logs
1 Rooms	Cografie 60019 Allona inc (phrascon), All Rights Hearing), (P Address 10 20 2002)	+ Ad User		▲ Logout ④ Shutdown Machine

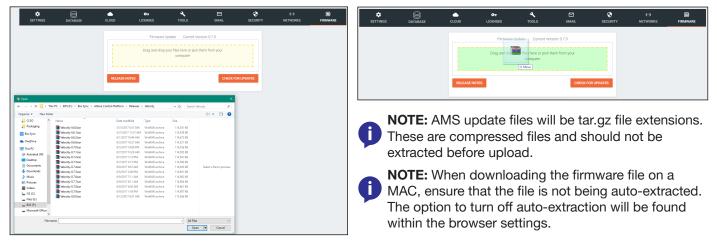
2. Select Server Settings from the drop down menu. A new page will open.



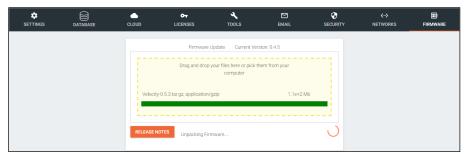
3. Select **Firmware** from the top navigation inside of the **Server Settings**.

¢ SETTINGS	DATABASE	TOOLS	EMAIL		∢··> NETWORKS	FIRMWARE
			are Update Current Version drop files here or click to brow:			
	ĺ	RELEASE NOTES		CHECK FOR UPDATE	S	

4. Left click on the field to browse the local computer for the firmware file, or drag and drop the firmware into the field.



Firmware upgrading will start automatically.



When the firmware upgrade is successfully completed, a pop up window will appear. It will close a few seconds later and will redirect the page to **Settings**.





Discovery

Once, AMS is fully updated, all OmniStream devices can be found through the device list or rooms page. These instructions will provide steps for device list discovery.

- 1. Select the \equiv button from the top left corner and select **Devices**.
- 2. Select All from the available options. A new window will appear.

	1115	Device List	:		AMS Dev	vice List				SCAN	NETWORK		🖬 🛓
A A a@a.com		🚍 Unassigned	^	t↓	NAME	MODEL	IP	MAC	FIRMWARE	UPDATE	SITE	BUILDING	ROOM
		AT-OMNI-111		•	AT-OMNI-111	AT-OMNI-111	10.20.200.175	B8:98:B0:01:A3:5D	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
Dashboard		🗑 AT-OMNI-112		•	AT-OMNI-112	AT-OMNI-112	10.20.200.123	B8:98:B0:01:A5:7F	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
Users		AT-OMNI-121 AT-OMNI-122		•	AT-OMNI-121	AT-OMNI-121	10.20.200.139	00:04:A5:21:0F:44	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
Sites		 AT-OMNI-512 		٠	AT-OMNI-122	AT-OMNI-122	10.20.200.131	B8:98:B0:01:92:52	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
Devices	>	# AT-OMNI-521		٠	AT-OMNI-512	AT-OMNI-512	10.20.200.180	00:04:A5:27:0F:4D	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
All		 AT-OMNI-521 AT-UHD-SW-510W 		•	AT-OMNI-521	AT-OMNI-521	10.20.200.133	B8:98:B0:01:B9:16	1.2.2	Up to date	Not	Not Assigned	Not
1 Unaccigned	>			٠	AT-OMNI-521	AT-OMNI-521	10.20.200.93			1.2.2 🕑	Not Assigned	Not Assigned	Not Assigned
Unassigned Virtual Matrix				٠	AT-UHD-SW- 510W	AT-UHD-SW- 510W	10.20.200.115	00:1E:06:34:E7:53	2.2.0	Up to date	Not Assigned	Not Assigned	Not Assigned

OmniStream devices are located through mDNS autoscan and should automatically be discovered and placed under the unassigned list, but if a device isn't listed (or using the AT-OMNI-311 and AT-OMNI-324), use the network scan to find it.

- 1. Select the Scan Network button or press the : icon next to Device List. A new pop up will appear.
 - a. If : is selected, choose Scan Network from the drop down menu.

≡ 🖸 Help~		Scan Network		
Device List		Available Networks Select Network	·	
E Unassigned	Add Site		Scan Network	
AT-OMNI-111	Add Building		Select Network Custom Range	
AT-OMNI-111	Add Room		eth0: 192.168.11.229/24	
AT-OMNI-112	Firmware Update		6(10, 192, 106, 11, 229) 24	
AT-OMNI-112				CLOSE SCAN NETWORK

2. Select Custom Range (a new screen will take over) or the auto detected network eth0.



- a. If the auto detected network eth0 is selected, press Scan Network to start the scan.
- b. If Custom Range is selected, select between IP Range and Subnet Scan

Scan Network		
Available Networks eth0: 192.168.11.229/24		Î
Identifying Equipment Please Wait		
C		Ţ
	CLOSE	SCAN NETWORK

Custom Netwo	ork Scan		
Please enter the star Addresses.	rt and end IP addres	ses for scanning. Scan is incl	lusive of the start and end IP
IP Range			
O Subnet Scan			
Start IP	End IP	(-)	
			CANCEL SUBMIT

- 1. Type in the network range or subnet information.
- **NOTE:** It is recommended to keep the network range scan to under a 512 IP range. The larger the network range, the longer the scan will take. On subnet scan, AMS will automatically limit the scan to 512 on subnet 23 or 256 on subnet 24.

Custom Netwo	ork Scan			Custom Network Scan						
Please enter the sta Addresses.	rt and end IP addresses	for scanning. Scan is inclusive of the start and end IP		Please enter the starting IP add displayed below.	ress for scanning. Scan will range through the full subnet (CIDR)					
IP Range				O IP Range						
O Subnet Scan				 Subnet Scan 						
Start IP 192.168.11.1	End IP 192.168.11.254	(192.168.11.1 - 192.168.11.254) 🔒		* IP Address 192.168.11.229	Subnet /24 ~ (192.168.11.0/24)					
		CANCEL SUBM	п		CANCEL SUBMIT					

- 2. Press the save icon next to IP field. A green CustomNetwork Saved Successfully message will appear at the bottom of the page when the custom scan settings are saved.
- 3. Press the Submit button to start the scan. The pop up will close when the scan is completed.

Available Networks			Â
Custom Range	~		- 1
dentifying Equipment Please Wait			- 1
~			- 1
()			
			•



Updating Device Firmware

Once all devices are discovered, ensure they are the correct firmware. When AMS or the PC connected to AMS is connected to the internet, it will automatically display if an update is needed under the update list or the firmware tab can be checked on https://atlona.com for each individual device.

1. Select the update icon within the device list (circled below) or left click the : icon and select Firmware Update from the drop down menu. A new pop up will appear.

rice List			AIVIS De	vice List					NETWORK		8 ±			
Unassigned	^	↑Ļ	NAME	MODEL		MAC	FIRMWARE	UPDATE	SITE	BUILDING	ROOM			
AT-OMNI-111		•	AT-OMNI-111	AT-OMNI-111	10.20.200.175	B8:98:B0:01:A3:5D	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned			
AT-OMNI-112	:	٠	AT-OMNI-112	AT-OMNI-112	10.20.200.123	B8:98:B0:01:A5:7F	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned			
AT-OMNI-121	Mo	dify Devic	e -	AT-OMNI-121	10.20.200.139	00:04:A5:21:0F:44	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned			
AT-OMNI-512	Rec	connect		AT-OMNI-122	10.20.200.131	B8:98:B0:01:92:52	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned			
AT-OMNI-521		sync by Configu	uration	AT-OMNI-512	10.20.200.180	00:04:A5:27:0F:4D	1.2.2	Up to date	Firm	ware Updat	e			
 AT-OMNI-521 AT-UHD-SW-510W 		mware Up		AT-OMNI-521	10.20.200.133	B8:98:B0:01:B9:16	1.2.2	Up to date	TA	-OMNI-112 - 19	2.168.11.116:80			
		w Logs ve Device		AT-OMNI-521	10.20.200.93			1.2.2 C			Drop or Brow	se file her	re to upload new Firmware	
		ete Device		AT-UHD-SW- 510W	10.20.200.115	00:1E:06:34:E7:53	2.2.0	Up to date	Selec	at Firmware				
	Una	assign De	evice	01011										

- 3. Drag and drop the firmware from the local PC or select the yellow box to browse the local computer. Once the firmware file has been uploaded, it will appear under the **Select Firmware** section of the dialog box.
- 4. Select the firmware file name, so that it is highlighted grey.
- 5. Select **UPDATE FIRMWARE** button to begin the update process, at the bottom of the dialog box, to begin the

undata proces							
update process.	Firmware Update ₩ AT-OMNI-112 - 192.168.11.116:80		Upgrade Firmware Started				
	AI-OMNI-112 - 192.108.11.110:80						
	Drop or Browse file here to upload new Firmware					1	
	······						
	Select Firmware	NC	TEXT	LOGO	PTP	NETWORK	L
	at-omni-dual-upgrd-os-1.2.1_RC02.vpup2 x 05 Jun 2018 17:44:16 +0000						
	CLOSE UPDATE FIRMWARE UPDATE ONLINE						

After the **UPDATE FIRMWARE** button is clicked, the Upgrade Firmware Started message box will be displayed at the bottom of the page.

Firmware Name: "at-omni-dual-upgrd-os-1.2.1_RC02.vpup2"	:
---	---

The progress bar for the update process will be displayed. The update process should take a few seconds. When done, press the close button and then refresh the browser page. The update is complete.



Device List		AMS De	vice List				SCAN	NETWORK		8 ±
E Unassigned	^ 1	t _{↓ NAME}	MODEL	IP	MAC	FIRMWARE	UPDATE	SITE	BUILDING	ROOM
AT-OMNI-111	•	AT-OMNI-111	AT-OMNI-111	10.20.200.175	B8:98:B0:01:A3:5D	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
AT-OMNI-112	•	AT-OMNI-112	AT-OMNI-112	10.20.200.123	B8:98:B0:01:A5:7F	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
AT-OMNI-121 AT-OMNI-122		AT-OMNI-121	AT-OMNI-121	10.20.200.139	00:04:A5:21:0F:44	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
AT-OMNI-512		AT-OMNI-122	AT-OMNI-122	10.20.200.131	B8:98:B0:01:92:52	1.2.2	Up to date	Not	Not Assigned	Not
AT-OMNI-521		AT-OMNI-512	AT-OMNI-512	10.20.200.180	00:04:A5:27:0F:4D	1.2.2	Up to date	Not	Not	Not
AT-OMNI-521								Assigned	Assigned	Assigned
AT-UHD-SW-510W	÷ •	AT-OMNI-521	AT-OMNI-521	10.20.200.133	B8:98:B0:01:B9:16	1.2.2	Up to date	Not Assigned	Not Assigned	Not Assigned
	•	AT-OMNI-521	AT-OMNI-521	10.20.200.93			1.2.2 🕑	Not Assigned	Not Assigned	Not Assigned
	•	AT-UHD-SW- 510W	AT-UHD-SW- 510W	10.20.200.115	00:1E:06:34:E7:53	2.2.0	Up to date	Not Assigned	Not Assigned	Not Assigned
										Ţ

Once all devices are up to date, they can be configured.

If labeling devices, the IP address can be found on the device list, next to the MAC address. If the MAC address was not noted, the IDENTIFY button can be used within the interface discussed in this section.

1. Select an encoder (AT-OMNI-11X), either from the Unassigned list or the name link in the device list. This will open the encoder's interface to the Info tab.

												Þ
	:	DEVICE INFO	INPUT	ENCODING	SERIAL	SESSION	LOGO	TEXT	ALARMS	NETWORK	РТР	
signed	^	Device In	fo									d
T-HDVS-200-TX												1
T-OMNI-111		Alias										
AT-OMNI-112		Allas										
AT-OMNI-121		Model AT-OMNI	-112									
AT-OMNI-122		IP Address										
AT-OMNI-512		10.20.20	0.123			IP Address 2						
AT-OMNI-521		MAC Addres				MAC Address 2						
AT-OMNI-521		B8:98:B0	:01:A5:7F			B8:98:B0:01:A	(5:80					
AT-UHD-CLSO-824		Firmware Ve 1.2.2	ersion									
AT-UHD-SW-510W												
		FIRMWA	RE UPDATE									
		Description										
		Andrew's	AT-OMNI-1	12								
		Location										
		Uptime										
				Atle	ona Custom	er Support Live (Chat (5AM PS	ST - 5PM PST) P			

NOTE: Scroll to the bottom of the info tab to find the IDENTIFY button, pressing it will blink the front LEDs of the currently selected OmniStream encoder.



i

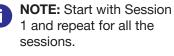


2. Select the Session tab.

DEVICE INFO INF	UT ENCODING	SERIAL	SESSION	LOGO	TEXT	ALARMS	NETWORK	РТР	•	Ø	NOTE: If using AES67 audio, select the SAP slider and enable it.
Session 1				Session 2	2					SAP	
Name				Name							
session1				session2	2						
Interface				Interface							
eth1			~	eth2				~			
Encoder Groups	*			Encoder (Groups:						
Group Name				Group Nam	e						
session1				session2	2						
Enable Encoder	Group			Enable En	coder Group						
Active			•	Active				•			
Trigger				Trigger							
manual			-	manual				~			
		AC	TIVATE				ACTI	VATE			
Members		_		Members							
			ADD				A	DD			
SAP				SAP							
Scrambling				Scramblin	g				-		

- 3. For the initial configuration to make sure all things are set up to display audio and video to other devices, only the Destination IP Address and UDP Port are needed. Scroll down to the Video section first.
- 4. AMS will automatically assign IP address and UDP port, notate the Video IP and Port or if preferred, type in a new IP and Port.

<u>Video:</u>	<u>Video:</u>
Encoder	Encoder
vc2_encoder1	vc2_encoder2
Enable Video	Enable Video
Destination IP Address	Destination IP Address
225.0.0.1	225.0.0.3
Destination UDP Port	Destination UDP Port
1000	1000
TTL	ΠL
255	255
DSCP	DSCP
Best Effort	Best Effort
FEC Enable	FEC Enable
FEC Rows	FEC Rows
15	15
FEC Columns	FEC Columns
15	15
Audio:	Audio:
Source	Source
HDMI 1	HDML2



NOTE: Default Destination IP Address will be 225.0.0.1 and UDP port 1000.



- 4. Scroll down to the Audio section.
- 5. Notate the Audio IP and Port or type in a new IP/port. The audio IP and port will differ from the video settings, this allows audio to be routed independently from the video. It is best to have the Destination UDP Port different than the video. So if video is 1000, use 1100 for the audio.

Audio: Source		Audio: Source		*	Ø	NOTE: Start with Session 1 and repeat for all the sessions.
HDMI 1	~	HDMI 2	× .			303310113.
Enable AES67		Enable AES67				NOTE: Default Destination
					0	
None	-		*			IP Address will be 225.0.0.2
Enable Audio		Enable Audio	-			and UDP port 1100.
Destination IP Address		Destination IP Address				
225.0.0.2		225.0.0.4				NOTE: In order to work with
Destination UDP Port		Destination UDP Port			Ø	AT-OMNI-238, set the IP
1100		1100				address to 239.69.X.X and
TTL		TTL				
255		255				UDP port 1100.
DSCP		DSCP				
Best Effort	-	Best Effort	Ψ.			
FEC Enable		FEC Enable				
FEC Rows		FEC Rows				
4		4				
FEC Columns		FEC Columns				
4		4				
				*		

0

NOTE: If using AES67 audio routing, be sure to select the Enable AES67 slider so that it is green. The AES67 audio stream will use the IP and Port from step 3.



6. Repeat this step for Session 2 if using a dual channel encoder.



NOTE: There will be extra sessions listed on the encoders, these are for redundancy. View the Omni manuals to go over redundancy.

Name		Name	
session3		session4	
Interface	·	Interface	· ·
Encoder Groups:		Encoder Groups:	
Group Name		Group Name	
session3		session4	
Enable Encoder Group		Enable Encoder Group	
Active	•	Active	•
Trigger		Trigger	
manual	Ψ	manual	~
	ACTIVATE		ACTIVATE
Members		Members	
	ADD		ADD
SAP		SAP	
Scrambling		Scrambling	



For Pro Series OmniStreams only:

With firmware 1.2.2 on Rev C (found on barcode at the bottom of the unit) and above, Video Optimization can be used. The selected optimization option on the Encoder must be selected on the Decoder.

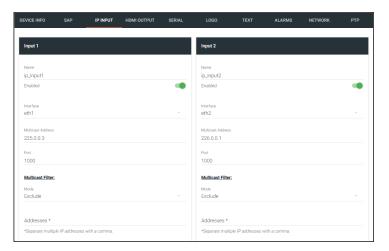
VICE INFO	INPUT	ENCODING	SERIAL	SESSION	LOGO	TEXT	ALARMS	NETWORK	РТР	Î	Video Optimization	
Encoder 1					Encoder 2	!						
											Motion Video	
Name					Name						Computer Graphics	
vc2_encod	der1				vc2_enco	der2						w moments to
Input					Input						complete.	
hdmi_inpu	it1		~		hdmi_inpu	ut2		Ŧ				SAVE
Bit Rate					Bit Rate							
900					900						NOTE: If connecting	a a Dro
Bit Depth					Bit Depth							
8-Bit			~		8-Bit			∇			Ommotiean series	
											OmniStream, Motio	n Video mu
Subsampling					Subsampling)					be selected in Video	o Optimizat
4:2:2			Ψ		4:2:2			T				
Force YUV					Force YUV							
Slate Mode					Slate Mode							
Off					Off							
				SAVE					SAVE			
				SATE					SAVE			
Video Opti	mization									-		

- 8. Repeat steps 1 through 6 for all encoders.
- 9. Open a decoder (AT-OMNI-12X).

∷ Help ~		2 9
ce List	EVICE INFO SAP IP INPUT HDMI OUTPUT SERIAL LOGO TEXT ALARMS NETWORK	РТР
Unassigned	A Device Info	
AT-ANC-108D		
AT-HDVS-200-TX	Alias	
AT-OME-SR21		
AT-OME-ST31	AT-OMNI-122	
AT-OME-SW32	IP Address 1	
AT-OMNI-111	: 10.20.200.131 IP Address 2	
AT-OMNI-112	MAC Address 1 MAC Address 2 B8:98:B0:01:92:52 B8:98:B0:01:92:53	
AT-OMNI-121		
AT-OMNI-122	Firmware Version 1.2.2	
AT-OMNI-512		
AT-OMNI-521	FIRMWARE UPDATE	
AT-OMNI-521		
AT-OPUS-810M	: Description	
AT-UHD-CLSO-824		
AT-UHD-PR03-66M	Location	
AT-UHD-SW-5000ED	Uptime Ationa Customer Support Live Chat (5AM PST - 5PM PST)	

10. Select the IP Input tab.





- 11. Set the Multicast Address to match the video Destination IP and Port from the encoder. **e.g.** Session 1 from the Omni 112.
- 12. Scroll down to Input 3.
- 13. Enter the IP and Port from the audio source stream to be routed to HDMI OUT 1. e.g. Session 3 from the Omni 112.

Input 3	Input 4
Name	Name
ip_input3	ip_input4
Enabled	Enabled
Interface	Interface
eth1 ~	eth2 v
Multicast Address	
225.0.0.2	Multicast Address
Port	Port
1100	1100
Multicast Filter:	Multicast Filter:
Mode	Mode
Exclude	Exclude
Addresses *	Addresses *
*Separate multiple IP addresses with a comma.	*Separate multiple IP addresses with a comma.
SAVE	SAVE

- 14. Repeat for Session 2 (Video for HDMI OUT 2) and Session 4 (HDMI OUT 2 and analog audio) on the Omni dual channel decoders.
- 15. Repeat steps 9 through 14 for all decoders.

NOTE: If the OmniStream devices will be used in a video wall, open the HDMI OUTPUT tab and scroll to the under the Video section and select the slider to enable Video Wall. Select Full Screen from the Stretch/ Crop Mode drop down menu under the Video section. No other settings need to be chosen at this time. View the Video Walls (page 55) section for configuration.

Video	Input ip_input1	Video	Input ip_input2	
	Backup Mode Off		Backup Mode Off	
	Backup Input ip_input7		Backup Input ip_input8	×.
	Configuration Grace Period O		Configuration Grace Period	
	Active Input ip_input1		Active Input	
	Status	Keep Aspect Ratio		
	No active video	Full Screen		
	Stretch/Crop Mode Keep Aspect Ratio	16:9 16:10		
	Resolution 1920x1080	4:3		¥.
	Slate Mode Off	*	Slate Mode Off	
Video Wall	Enable	Video Wall	Enable	•



For Pro Series OmniStreams only:

With firmware 1.2.2 on Rev C (found on barcode at the bottom of the unit) and above, Video Optimization can be used. The selected optimization option on the Decoder must match the Encoder.

DEVICE INFO	SAP IP INPUT HDMI O	UTPUT SERIAL LOGO	TEXT ALARMS N		Video Optimization
output 1		output 2			
Name hdmi_output1 Descrambling	Enabled	Name hdmi_out			Motion Video Computer Graphics
	Key scrambling	C	Key scrambling	С	w moments to
HDCP	Encrypted Supported Version 1.4	HDCP	Encrypted Supported Version 1.4	•	NOTE: If connecting a Pro
EDID	Negotiated Version 1.4	EDID	Negotisted Version 1.4		OmniStream to a R-Type OmniStream, Motion Video must
Video	Input ip_input1	Video	trput ip_input2	· ·	be selected in Video Optimizatio



Testing Connectivity

Now that all the OMNIs are set to pass and receive audio and video over IP, basic testing can start.

Ø

NOTE: Only one source and display are needed for testing, but multiple can be used, to avoid having to disconnect and reconnect the HDMI cable from the OMNIs.

- 1. Connect the HDMI source to the first encoder port.
- 2. Connect the HDMI Display to the decoder set up to receive that stream.

If all the streams were set up correctly, audio and video will be passed.

1. Repeat steps 1 and 2 for all encoder and decoder ports.

The Audio / Video Settings section can be used to adjust video input and output resolutions and settings for each stream, for in depth settings, view the OmniStream manuals.



IR Control

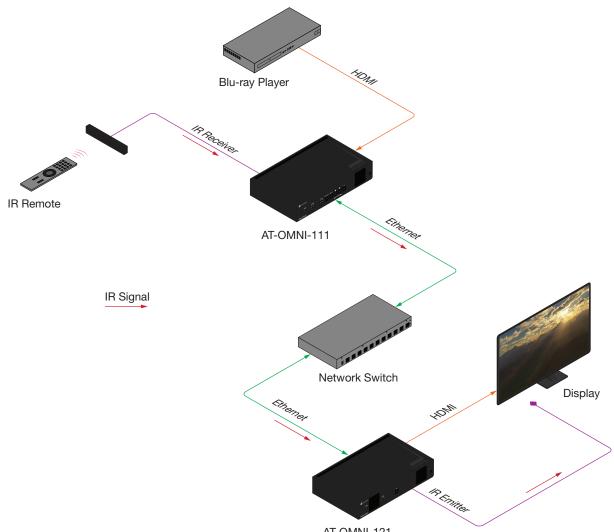
Controlling the Display using the Display's IR Remote

The same port that provides RS-232 connections also supports bidirectional IR pass-through, allowing a device to be controlled from either the headend or the decoder endpoint. This step is optional. IR control is only supported on RS-232 2 port (bottom set of connectors).

The following sections provide step-by-step instructions for the following topics:

- Controlling the Display using the Display's IR Remote
- Controlling the Display using a Control System

The illustration below shows a display device being controlled from the encoder. Refer to the next page for details on how to connect the IR emitter and IR receiver.



AT-OMNI-121



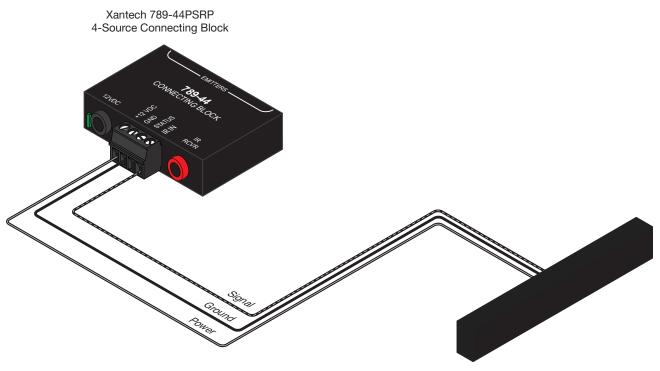
Required Equipment

Atlona has tested and verified the following components for this application. However, other components may also be used. Note that IR control is only supported on **RS-232 2** port (bottom set of connectors) of the OmniStream encoder and decoder.

- Xantech 789-44 4-Source Connecting Block
- Xantech 12 V PSU
- IR Receiver (Atlona AT-IR-CS-RX)
- IR Emitter (Atlona AT-OMNI-IR-TX)

Connecting the IR Receiver to the Encoder

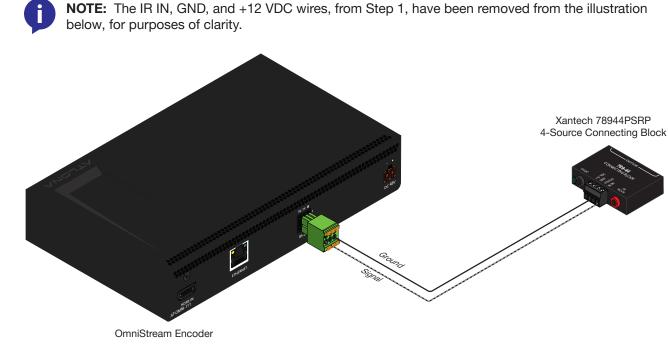
- Unscrew the captive screw connectors on the Xantech 789-44 4-Source Connecting Block, using a regular screwdriver, and connect the SIGNAL, GROUND, and POWER leads of the AT-IR-CS-RX to the Xantech 789-44 4-Source Connecting Block, as shown below. The presence or absence of white markings on each wire of the AT-IR-CS-RX will denote the signal type:
 - IR IN = Dashed dark gray line GND = Solid (no marking) black wire
 - = 3010 (10 marking) black
 - +12 VDC = solid dark gray line



AT-IR-CS-RX



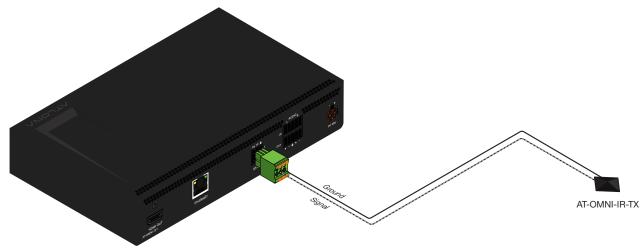
2. Connect the IR IN and GND leads, from the 789-44 4-Source Connecting Block, to the to the **RX** and \neq pins, respectively, of the **RS-232 2** port (bottom port) of the encoder, as shown.



3. Connect the Xantech 12 V power supply (or other compatible 12 V DC power supply) to the 12VDC connector on the Xantech 789-44 4-Source Connecting Block.

Connecting the IR Emitter to the Decoder

- 1. Connect the included 6-pin Phoenix connector to the RS-232 2 port on the encoder.
- 2. Connect the SIGNAL wire of the AT-OMNI-IR-TX, to the TX (middle) terminal on the RS-232 2 port.
- 3. Connect the GROUND wire of the AT-OMNI-IR-TX to the 🛓 terminal on the RS-232 2 port.



OmniStream Decoder



Identifying the Encoder using AMS

- 1. Launch a web browser and enter the IP address of AMS in the address bar.
- 2. Enter the required login credentials. The default login is:

Username: admin Password: Atlona

- 3. Click the **Login** button.
- 4. The AMS Dashboard will be displayed.
- 5. Click the \equiv icon, in the upper-left corner of the AMS Dashboard.

≡ C3 Help×		AMS.		ee
AP person	Users	Product Documentation	Updates	
Dashboard	AP Welcome			
Ji Users	ap@a.com	2.0		
Upevices >				
€ AI				
AT-ANC-108D		View AMS Documentation (View AMS Documentation)	AMS Version Notes 2.0.3 (View Full Notes)	
AT-OMINI-112		a AT-ANC-108D	Bug Fix Connectivity bug fores	
AT-OMNI-122		Installation Guides Datasheet	 Bug Fix: AMS Bug fixes 	
© Sites >		Manual Label Sheet Template		
₩ Equipment		CAD Files		
I Virtual Matrix	8	0 0 Atlans Devices Added Devices Connected	All Devices Seem To Be Connected	
	0 Rooma	1 Users		
	0 Buildings	=		
	Days	yh (2016 Alfona inc (atora.com) All Rights Reserved; (19 Address: 192, 168: 11.229 (V	*sker 2.03	

- 6. Click **Devices** from the fly-out menu.
- 7. Click the All option.
- 8. Click the desired encoder within the **AMS Device List** window. The AMS interface for the encoder will be displayed.

DEVICE INFO	INPUT	ENCODING	SERIAL	SESSION	TEXT	LOGO	РТР	NE
Device Info			Address 1 field					
			Address Theic					
Alias		_						
Model								
AT-OMNI-112								
IP Address 1	IP Address 2							
192.168.11.101	192.168.1	1.102						
MAC Address 1	MAC Address	2						
B8:98:B0:01:92:72	B8:98:B0:0	1:92:73						
Firmware Version								
1.2.0_RC1								

9. Locate and make note of the IP address of the encoder, which can be found in the **IP Address** field. If using dual-channel encoders, use the IP address in the **IP Address 1** field.



Configuring the Encoder Serial Port

The first step will be to configure the RS-232 port on the encoder to use IR. Only the **RS-232 2** port supports both RS-232 and IR. Therefore, this port must be used for IR. RS-232 port configuration is managed under the Serial page of the encoder web interface.

- 1. Enter the IP address of the encoder in the address bar of the web browser.
- 2. Enter the required login credentials. The default login is:

Username: admin Password: Atlona

- 3. Click the **Login** button.
- 4. Click Serial in the top menu bar.

é									
<	System information	Input	EDID	Encoding	Serial	Session	Logo	Text	Alarms 2
					2				

- 5. Locate the **Serial port configuration** window group. The **Name** field, within this window group, should read **serial_port2**. Click the **Mode** drop-down list and select **Infrared**.
- 6. Click the **SAVE** button to commit changes.

1		Serial port configuration	
	serial_port1	Name	serial_port2
	serial	Supported modes	infrared, serial
	serial 👻	Mode	infrared 👻
	9600 👻		infrared
	8 🗸	SAVE	serial
	none 👻		
	1 👻	Serial configuration	
	none 👻	Name	serial_use1
	SAVE button	Port	serial_port1 ▼
SAVE		Mode	cli 👻
		SAVE	



Configuring the Encoder Session

The next step is to assign the IR control for Serial Port 2 to the desired Session.

1. Click **SESSION** in the top menu bar.

< System information	Input	EDID	Encoding	Serial	Session	Logo	Text	Alarms 2
					2			

2. Locate the **Session 1** window group.

NOTE: Session 2 can also be used with IR. However, in this example, Session 1 will be configured.

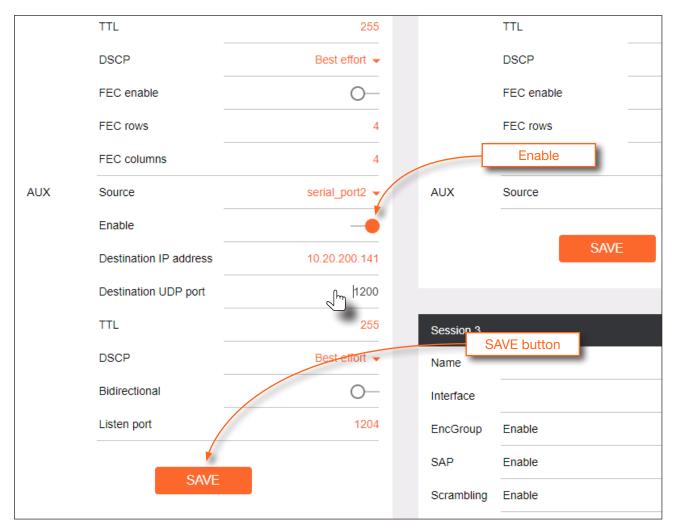
Network	PTP Configurati	on Users License	Upgra	ade Demo		
Session 1	h.,			Session 2		
Name		session1		Name		
Interface		eth1 🗣		Interface		
EncGroup	Enable	0-		EncGroup	Enable	
SAP	Enable			SAP	Enable	
	Interval	10			Interval	
	Name	session1			Name	
	Description	N/A			Description	
	Originator				Originator	
Scrambling	Enable			Scrambling	Enable	
	Кеу	scrambling			Кеу	
Video	Encoder	vc2_encoder1 -		Video	Encoder	
	Enable				Enable	
	Destination IP address	225.0.0.1			Destination IP address	
	Destination UDP port	1000			Destination UDP port	



- 3. Scroll down and locate the **AUX** section.
- 4. Click the Source drop-down list and select serial_port2.

AUX	Source		Not used 👻	AUX	Source	
			Not used			
		SAVE	Commands			SAVE
			serial_port1			
			serial_port2 س			

- 5. Enable the auxiliary (AUX) channel by clicking the **Enable** toggle switch. When the auxiliary channel is enabled, this toggle switch will be orange.
- 6. Enter the IP address of the *decoder* in the **Destination IP Address** field. This is the decoder to which the IR emitter is connected. In this example, the decoder IP address is 10.20.200.141.
- 7. Enter the port number in the **Destination UDP Port** field.
- 8. Click the **SAVE** button to commit changes.





Configuring the Decoder Serial Port

- 1. Select the desired decoder within the AMS Device List window and make note of the decoder IP address.
- 2. Enter the required login credentials. The default login is:

Username: admin Password: Atlona

3. Click the Login button, then click IP Input in the top menu bar.

Ø									
<	System information	SAP	IP Input	Serial	HDMI Output	Logo	Text	Alarms	Network

- 4. Scroll down to the **Input 5** window group.
- 5. Enable Input 5 by clicking the Enable toggle switch. When enabled, this toggle switch will be orange.



NOTE: Input 5 is dedicated to IR. Therefore, this input *must* be used in order for end-to-end IR to function properly.

6. Enter the port in the **Port** field. This port number must be the same port used by the encoder, and is the input of the decoder that will receive IR data.



IMPORTANT: Do not change the contents of the **Multicast Address** field. Unicast mode uses the IP address of the decoder for communication. Therefore, only the port number is required.

7. Click the **SAVE** button to commit changes.

Input 5			Enable	
Name	ip_input5	7		
Enable				
Interface	eth1 👻			
Multicast address	237.79.202.125			
Multicast filter	Mode exclude -		SAVE button	
	Addresses* N/A	-		
	*Separate multiple IP addresses with a comma.			
Port	1200 			
	SAVE			



IR Control

8. Click Serial in the top menu bar.

< System information	SAP	IP Input	Serial	HDMI Output	Logo	Text	Alarms	Network
			2					

- 9. Locate the **Serial port configuration** window group. The **Name** field, within this group, should read **serial**_**port2**. Click the **Modes** drop-down list and select **Infrared**.
- 10. Click the **SAVE** button to commit changes.

1	Serial port configuration	
SAVE button	Name	serial_port2
serial	Supported modes	infrared
serial 👻	Mode	infrared 👻
9600 🗸		infrared
8 🗸	SAVE	-

- 11. Scroll down the page and locate the **Serial Configuration** window group. The **Name** field, within this group, should read **serial_use2**.
- 12. Click the Port drop-down list and select serial_port2.
- 13. Click the **Mode** drop-down list and select **output**.
- 14. Click the Input drop-down list and select ip_input5.

Serial configurat	Serial configuration			isplay Off	
Name		serial_use2	Mode		
Port		serial_port2 👻	ASCII		
Mode		output 👻	HEX		
Input		ip_input5 👻			
Bidirectional	Interface	Not used		SAVE	DELE
	Destination IP address	ip_input1 ip_input2			
	Destination	ip_input3	Command: D	isplay On	
	UDP port	ip_input4	Mode		
	Enabled	ip_input5h	ASCII		



IR Control

15. Click the **SAVE** button to commit changes.

Serial configuration	n		Command: Displa	ay Off	
Name		serial_use2	Mode		
Port		serial_port2 👻	ASCII		
Mode		output 👻	HEX		
Input		ip_input5 👻	_		
Bidirectional	Interface	🔻		SAVE	DELE
	Destination IP address	N/A			
	Destination UDP port	5004	Command: Displa	SAVE DELE nand: Display On	
		0	Mode		
	Enabled	0-	ASCII		
	SAVE		HEX		

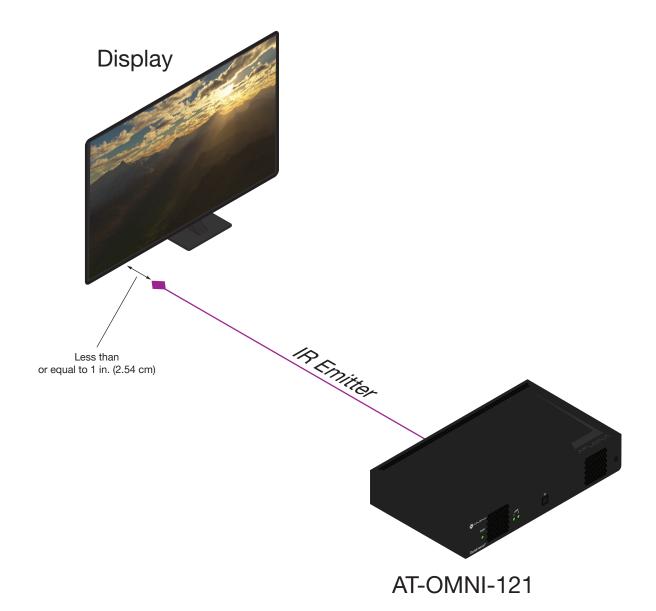


Testing IR Functionality

- 1. Point IR remote to at the IR Receiver, as shown in the diagram below.
- 2. The IR remote will now sent IR data to the decoder where it will be relayed to the display device.



IMPORTANT: The IR lens of the emitter must be within 1 inch (2.54 centimeters) of the IR window on the display device. If this distance is exceeded, then IR functionality may fail.

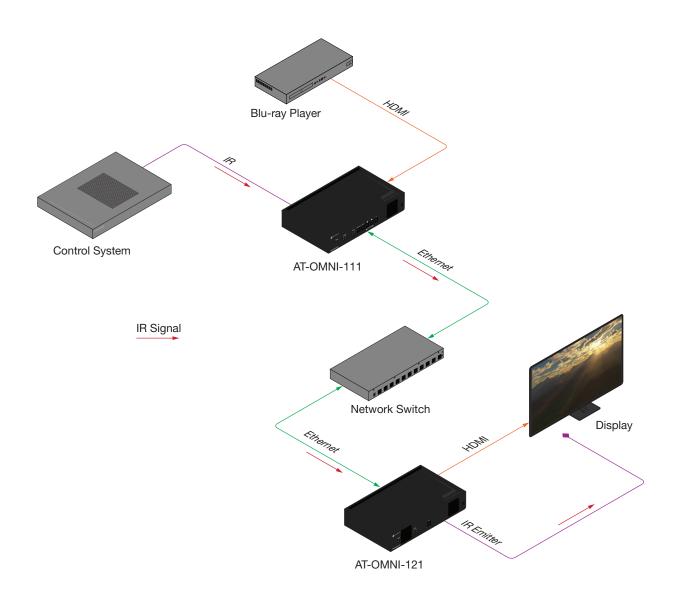




IR Control

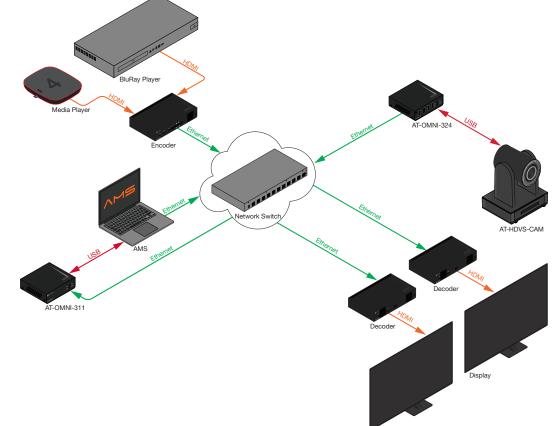
Controlling the Display using a Control System

The following steps are similar to Controlling the Display using the Display's IR Remote (page 37), except that the control system wiring should be used, instead of an IR receiver, as shown below.





USB to IP Adapter



OmniStream AT-OMNI-311 and AT-OMNI-324 provide a way to connect USB devices (such as cameras, MICs, etc) over IP.

1. Find the AT-OMNI-311 and AT-OMNI-324 in the left navigation, left click the :, and select reconnect from the drop down menu.

Display

				VM 5	12						
ce List		← AMS Device List						SCAN NET	TWORK	₽ ±	
A	^	† _{↓ NAME}	MODEL	IP	MAC	FIRMWARE	UPDATE	SITE	BUILDING	ROOM	
Building 1	~	• <u>AT-OMNI-112.1</u>	AT-OMNI-112	10.20.200.123	B8:98:B0:01:A5:7F	1.2.2	Up to date	A	Building 1	Large Conference Room	
Large Conference Room	~	AT-OMNI-122.1	AT-OMNI-122	10.20.200.131	B8:98:B0:01:92:52	1.2.2	Up to date	A	Building 1	Large Conference Room	
New Room		• AT-OMNI-521.1	AT-OMNI-521	10.20.200.133	B8:98:B0:01:B9:16	1.2.2	Up to date	A	Building 1	Large Conference Room	
-		Velocity Video Wall 1	VELOCITY-VIDEO- WALL					A	Building 1	Large Conference Room	
Unassigned	^	Velocity Video Wall 2	VELOCITY-VIDEO- WALL					A	Buildi	AT-OME-ST31	
AT-ANC-108D		AT-HDVS-200-TX	AT-HDVS-200-TX		B8:98:B0:00:1C:83	2.0.02	СНЕСК (С)	Not Assigned		AI-UME-ST31	Reconnect
🗑 AT-GAIN-120	÷	AT-HDVS-200-RX	AT-HDVS-200-RX		B8:98:B0:00:14:EC	1.1.09	снеск С			AT-OME-SW32	
AT-HD-SC-500	E.	AT-ANC-108D	AT-ANC-108D		B8:98:B0:00:98:E2	1.1.01	снеск С	Not Assigned		AI-UME-SW32	Re-sync
AT-OME-SR21		AT-GAIN-120	AT-GAIN-120	10.20.200.75			снеск С				
AT-OME-ST31		-								AT-OMNI-111	Cirren vere Lie dete
AT-OME-SW32		AT-HD-SC-500	AT-HD-SC-500	10.20.200.52		1.3.39	снеск С	Not Assigned			Firmware Update
AT-OMNI-111		AT-OME-SR21	AT-OME-SR21		B8:98:B0:01:3B:E8	1.0.00	снеск С			AT-OMNI-121	
AT-OMNI-121		AT-OME-ST31	AT-OME-ST31	10.20.200.62			снеск С	Not Assigned	Not Ass		View Logs
		AT-OME-SW32	AT-OME-SW32	10.20.200.53	B8:98:B0:00:01:AE	1.0.05	СНЕСК 🕑	Not Assigned	Not Ass	AT-OMNI-238	
AT-OMNI-238	Ó	AT-0MNI-111	AT-OMNI-111	10.20.200.175	B8:98:B0:01:A3:5D	1.2.2	Up to date	Not Assigned	Not Ass		Move Device
AT-OMNI-311: 00:18:13:02:AD:8C	ŏ	<u>AT-OMNI-121</u>	AT-OMNI-121	10.20.200.139	00:04:A5:21:0F:44	1.2.2	Up to date	Not Assigned	Not Ass	AT-OMNI-311: 00:1B:13:02:AD:8C	NOVE DEVICE
AT-OMNI-324: 00:18:13:02:AC:88	Ų	AT-OMNI-238	AT-OMNI-238	10.20.200.188	00:1D:01:11:FD:F6			Not Assigned			
AT 04 AH 510	a 🔻			Atlona Custom	ner Support Live Char	t (5AM PST - 5PN	(PST) 🏴			AT-OMNI-324: 00:18:13:02:AC:88	Delete Device



NOTE: Reconnecting the unit before adjusting it will ensure the units will be available in the pairing drop down menu.



USB to IP Adapter

2. Select either AT-OMNI-311 or AT-OMNI-324 from the device list. Pairing can be done from either unit, so the following step will show settings updating through OmniStream 311.

			AMS:	Ŀī	
Device List		DEVICE INFO	NETWORK PAIRING		I
Å .	^	Device Info			
Building 1	^	Alias			
Large Conference Room	~	AT-OMNI-311: 00:1B:13:02:AD:8C			
🗳 New Room		Model AT-OMNI-311			
💻 Unassigned	^	IP Address 10.20.200.61			
AT-ANC-108D	1	MAC Address 00:18:13:02:AD:8C			
AT-GAIN-120					
AT-HD-SC-500	1			SAVE	
# AT-OME-SR21					
AT-OME-ST31					
AT-OME-SW32					
AT-OMNI-111					
AT-OMNI-121					
AT-OMNI-238					
# AT-OMNI-311: 00:18:13:02:AD:80					
AT-OMNI-324: 00:18:13:02:AC:88					
			Atlona Customer Support Live Chat (SAM PST - 5PM PST) 🗖		

3. *Optional* The units will be set to DHCP by default. Select Network to adjust the network setting to static mode.

DEVICE INFO	NETWORK	PAIRING
Network		
DHCP Mode		
DHCP		
	SAVE	

- 4. *Optional* Select Static from the DHCP Mode drop down and fill in the IP Address, Subnet, and Default Gateway. e.g. 192.168.1.54, 255.255.255.0, and 192.168.1.1
- 5. Select Pairing from the top navigation. These following steps will be the same on either the AT-OMNI-311 or AT-OMNI-324.

DEVICE INFO	NETWORK	PAIRING	DEVICE INFO	NETWORK	PAIRING
Pairing			Pairing		
			Pairing 1		
Pairing 1		-	None		v
					SAVE
Pairing 2 None			OmniStream 311		JATE
Pairing 3					
None					
Pairing 4					
None					
Pairing 5					
None		~			
Pairing 6 None		-			
Pairing 7 None					
INGRE					



- 6. Select the unit to pair to from the drop down menu. The OmniStream 311 can pair with up to 7 devices, the OmniStream 324 can pair with only 1. It does not matter which drop down is used on the AT-OMNI-311 as it will assign it to any port.
- 7. Press the **SAVE** button once the device has been selected.

DEVICE INFO	NETWORK	PAIRING	Pairing
airing			Pairing 1 ATOMNI 324: 10.20.200.66 (AT-OMNI 324: 00:18:13:02:AC:88) (maic: 00:18:13:02:AC:88) (paired to : None)
lairing 1			Paring 2 None
			Pairing 3
None AT-OMNI-324: 10.20.200.66 (AT-OMNI-324: 00:1B:13	3:02:AC:8B) (mac: 00:18:13:02:AC:8B) (paired to : None)		None
airing 3			Pairing 4
airing 3 Jone		×	Puring 4 None
lone			None Parray 5
	NETWORK	PAIRING	None
DEVICE INFO	NETWORK	PAIRING	None Paring 5 None Paring 5 Paring 6 Paring 6
lone	NETWORK	PAIRING	None Pairing 5 None
DEVICE INFO	NETWORK	PAIRING	None Pairag 5 None Pairag 6 None Pairag 6 None Pairag 7
DEVICE INFO	-	PAIRMO	None Paring 5 None Paring 6 None
DEVICE INFO	-		None Pairag 5 None Pairag 6 None Pairag 6 None Pairag 7
DEVICE INFO	-	PARING	None Pairag 5 None Pairag 6 None Pairag 6 None Pairag 7
DEVICE INFO	-		None Pairag 5 None Pairag 6 None Pairag 6 None Pairag 7

8. The devices are now paired. Repeat steps 5 to 7 for all the OmniStream 311s and OmniStream 324s.



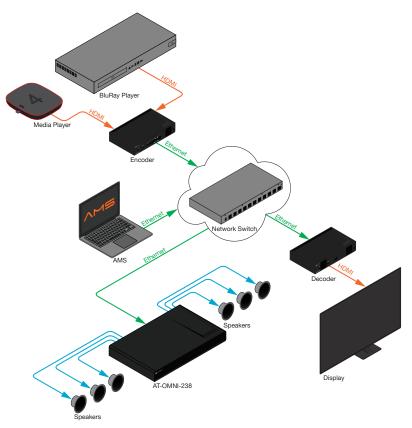
IP to Analog Audio Bridge

OmniStream 238 can be set up and routed using the Dante Controller. To download the software, go to <u>http://www.audinate.com</u>. The software will be found under **products** > **software** > **Dante Controller**. The download button is found on the right side of the page. Follow the instructions for downloading.

Once downloaded and installed, the AT-OMNI-238 will be automatically detected as long as the PC running Dante Controller and OmniStream 238 are on the same network.



NOTE: By default the AT-OMNI-238 will have AES67 disabled and will need it enabled to route the AES67 audio from the OmniStream Encoders.



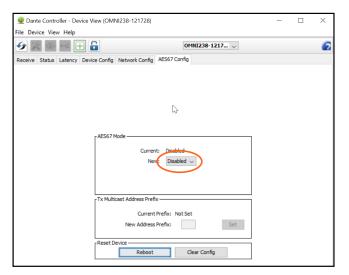
- 1. Open the Dante Controller application.
- 2. Double click the OMNI238 under the Dante Receivers. A new window will open.

🥺 Dante Controller - Network Vie	iew		×	👳 Dante Controll	er - Device View	(OMNI238-121728)		>
ile Device View Help				File Device View	Help			
🗌 🗲 🖿 🗲 🖬		arand Master Clock: Unknown Device*	\square	5 👷 💿 -			OMN12	8-1217 🗸
Rout	ting Device Info Clock Status Network Status Events			Receive Statue La	atency Device O	onfig Network Config	AES67 Config	
Clear All	Dante II					ve Channels	Actor coming	Available Channels
				Channel	Signal	Connected to	Status	Filter
Device Lock Filter	er Transmitters			CH01	alla	01@239.69.0.2		
Sample Rate	27 B			CH01 CH02	ala ala	02@239.69.0.2	 0	# 239.69.0.4 @ session2
Sync to External				CH02 CH03	alla	02@239.69.0.2	N	
E Latency	er Receivers			CH03			45	-
				CH05	a[]4)	01@225.0.0.2	0	-
Subscriptions	Ę			CH06		010220101012		-
Tx Multicast Flows	Dant			CH07	a[]4)	01@225.0.0.2	0	
E AES67				CH08				-
E Sample Rate Pull-up	Dante Receivers			CH09				
	Dante Receivers		~	CH10	- আন	01@225.0.0.2	0	-
± or	FIN1258-121728			CH11			-	-
				CH12				
				CH13				
				CH14				
				CH15				
				CH16				
			~					
	<		>					
÷ 🗖		Unmanaged Multicast Bandwidth: 0 bps Event Log: 🗧 Clock Status Monito	r: 📃					
					Lin	subscribe	Flows: 2 of 32	



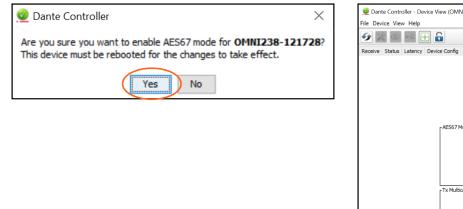
IP to Analog Audio Bridge

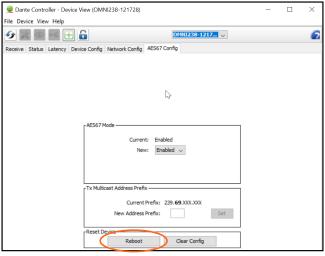
3. Select AES67 Config from the middle navigation.



👱 Dante Controller - Device View (OMNI238-121728)	-	×
File Device View Help		
9 📓 💿 🔤 🕂 🔓		2
Receive Status Latency Device Config Network Config AES67 Config		
43		
AES67 Mode		
Current: Disabled		
New: Enabled V		
This device must be rebooted for the changes to take effect.		
-Tx Multicast Address Prefix		
Current Prefix: Not Set		
New Address Prefix: Set		
-Reset Device		
Reboot Clear Config		

4. Select the New: drop down field and select Enabled. A pop up will appear.





- 5. Select the **Yes** button to confirm the switch to AES67 enabled.
- 6. Press the **Reboot** button to restart the AT-OMNI-238 and finish enabling AES67. A new pop up will appear.

🧟 Dante Controller Warning	×
Are you sure you want to reboot OM	NI238-121728?
Yes No	

7. Select the Yes button to confirm the reboot.

The software will return to the home screen when the reboot is finished. AES67 sources will appear as source options for the AT-OMNI-238 in the routing menu once the reboot is finished.



IP to Analog Audio Bridge

👱 Dante Controller - Netw	ork View						-		×
File Device View Help									
	🔤 🕂 🌒				Grand Master Clock: Unknown Device*				(
Clear Al El Device Lock El Sample Rate El Sync to External El Latency El Subscriptions El Tx Multicast Flows El AE567 El Sample Rate Pul-up		239.69.0.2 @ session1	10 00	m	18				
un denpe ridit fullagi	□ Dante Receivers ○0HU23 = 121728 □ □ 1.16 € ○ ○ € <td>9</td> <td>0000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	9	0000						
		<							>
P: 🔛					Unmanaged Multicast Bandwidth: 0 bps E	Event Log: 📕	Clock Sta	tus Monito	

- 8. Open the streams with the + buttons next to the OmniStream 238 and the multicast addresses of the Omni audio streams.
- 9. Select the cross section squares to route the streams. The streams will only appear as green checks when audio is passing.

NOTE: Audio paths will only show green if there is an active audio signal passing. If there is no active audio passing the connection will show a red icon.

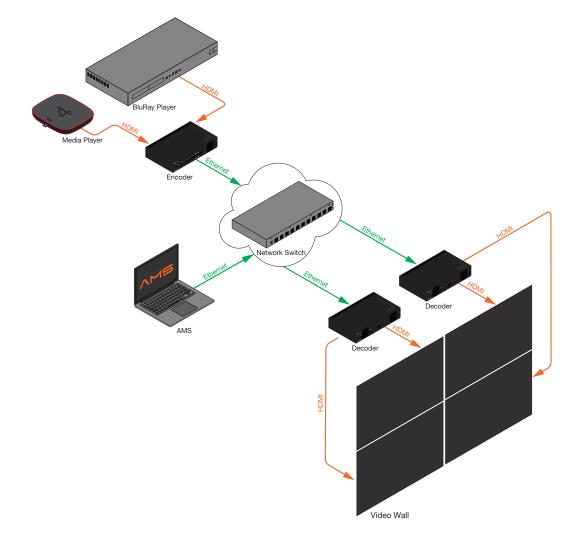
Audio routing should be complete and audio passing.

Ĭ

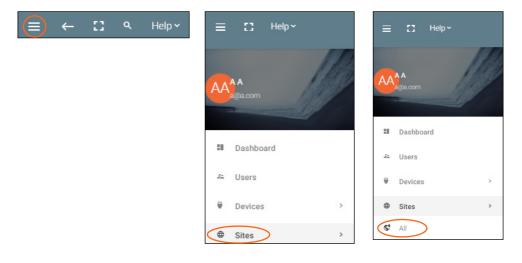


Video Walls

After the basic configuration of the devices is finished, the optional video wall can be set up using the room view. The following steps will provide the simplest way to set up a video wall.



1. Select the \equiv button from the top left corner and select **Sites**.





Video Walls

Site List [®]	
Sites	
There are no sites found	

2. Select All from the options that becomes available. A new window will appear.

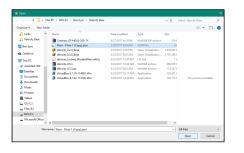
3. Press the orange + button in the bottom right hand corner to add a site. A popup window will appear.



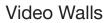
4. Select the purple **Add via Form** button for new sites or the blue **Import and Upload** button if loading a site based off a previously saved site. A new window will appear or a browse folder will open.

Ξ Ω Help+	AMS.	c 🔕				Imp	ort Via ISON	2 Or A	dd Via Form?		
● Site Add			a Oren			imp			dd via i onn:	×	
e one Add			Open							×	
			$\langle \cdot \rangle \rightarrow \cdot \uparrow $	This PC	> BXS (F:) > Box Sync > Velocity Base			v õ	Search Velocity Base	P	
	* Name		Organize - New fo	older					8 · E	1 0	
	Is this site a compus with multiple buildings		📒 Links	n Na	me	Date modified	Туре	Size			Upload
			📒 Velocity Base		Crestron_AT-HDVS-200-TX	5/27/2017 4:19 PM	WinRAR ZIP archive	37	41		1. A.
	*Address 1		bax Sync		Floor - Floor 1 (Copy).json	5/29/2017 8:54 AM					
	Address 2		G OneDrive		Velocity_0.2.4_Base Velocity_0.3.8_Base		Open Virtualizatio Open Virtualizatio				
			This PC		Velocity_License_WorldofWarcraft.lic	5/23/2017 12:47 PM		3,191,69			
	* Post code		Autodesk 360		Velocity-0.5.3	5/22/2017 10:36 AM		486,87			
	*Guine United States *		Desktop		Velocity-0.5.3.tar VirtualBox-5.1.18-114002-Win	5/23/2017 6:54 AM 3/23/2017 10:17 AM		114,10			
			Documents		VirtualBox-5.1.22-115126-Win	5/25/2017 12:34 PM		120,42		c.	
	*State/Province		🕹 Downloads								
			Music								
	*Cty		Pictures								
	Upload custom invege?		Videos S (C:)								
			= Files (E)								
	* StarBuilding image		BXS (Fr)								
			Microsoft Office								
	CREATE SITE			• < .					>	_	
	*The New Site will contain default Building, Floor and Room	G	Ei	e name:	Floor - Floor 1 (Copy) json			~	All Files	~	
	Cityrept (2009 Atom Inc Jakowani, Al Rights Reserved P Address: 12.20.200.229 Vesion: 21.0								Open Can	cel	

5. Select the site off the local computer and press open, or fill in the Site Add form.



Add	
	*Name ABC
	b this site a campus with multiple buildings *Atom 1
	123 ABC
	Addess 2
	*Contry United States ~
	*Balahosos Califonia ~
	*Clip San Joze
	Upload custom image? * StorBuilding image *
	CREATE BITE





- Name Usually the company name, use to identify the site AMS will be located.
- Multiple Building slider Select this to start the site with two buildings instead of one.
- Address 1 & 2, City, State/Province, Country, Post code Used to help determine the exact location of the site, to help when troubleshooting or if there is more than one site with the same name.
- Upload custom image slider Select this option to add a custom image for the site.
 NOTE: Custom images must be .PNG, .JPG, .JPEG, or .BMP file types to display.
 Site/Building image drop down menu Select an AMS site image.
- 6. Press the Create Site button.

A new page will open.

Conference Reen Description Conference Reen

7. Select the Edit Room Technology button. A new page will open.



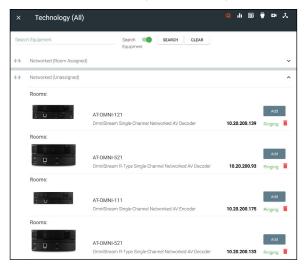
- 8. Press either the large + in the center or the small + in the top right corner of the Technology header. A new menu will slide open on the left side of the screen.
- 9. Type Video Wall into the search bar and press enter.
- 10. Select the Add button next to the Velocity-Video-Wall when it appears.

× Technology (All)	 	× 🔍 🖉	Technology (All)	L 🖷 🥊 🖬 L
Search Equipment Search CLEAR Equipment				
€-> Networked (Room Assigned)	~	Video	Wall Search Search CLEAR Equipment	
← Networked (Unassigned)	~			
Atlona Equipment	×		Atlona: Miscellaneous: Velocity Video Wall: VELOCITY-	Add
CLEAR UNASSIGNED SCAN NETWORK				
		CLE	AR UNASSIGNED SCAN NETWORK	



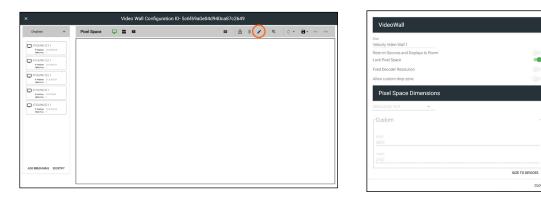


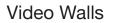
- 11. Press the **Clear** button located next to the search.
- 12. Select the Networked (Unassigned) label, this will expand the field.
- 13. Add all the OmniStream devices associated with the Video Wall.
- 14. Click outside of the menu, or select the **X** at the top to return to the room.
- 15. Select the Edit button (circled below) on the Video Wall. The Video Wall configurator screen will open.





- 16. Select the Edit button. A new pop up window will appear.
 - Alias Provide an Alias for the Video Wall.
 - Lock Pixel Space This locks and unlocks the resolution of the video wall. By default this is enabled. Disable to select a custom size and resolution in the Pixel Space Dimensions area.
 - Allow custom drop zones slider Select this to allow the creation of custom drop zones.
 - Pixel Space Dimensions When unlocked, the resolution of the video wall can be selected here.



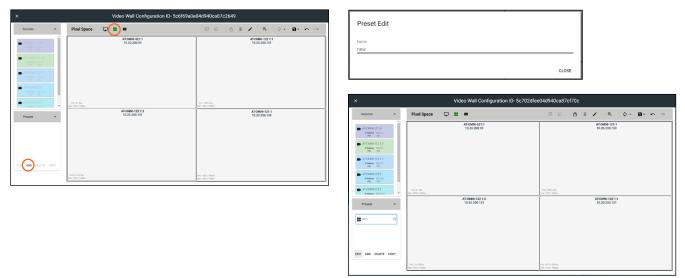


- 17. Double click or drag and drop the wanted decoders from the Displays area. Only drag and drop the decoders that will be used for the video wall.
- 18. Auto arrange the displays by dragging a mouse over the grid to the correct display layout and left clicking.

×	Video Wall Configuration ID- 5c6f6	9a0e04d940ca87c2649	×	Video Wall Configuration	ID- 5c6f69a0e04d940ca87c2649
Displays 🔨	Pixel Space 🖵 🚼 🖿	III 👌 🖬 🖌 🔍 🖓 • 🗃 • 🗠 🗠	Displays ^	Pixel Space 📮 🗱 🚥	🔳 👌 🕯 🖌 🔍 🔯 🗖 🖛 🖉
Constant Consta		OKM+1231:1 0.00300131	Archer (1) Archer (2) A	ACOME-122 1.2 10.20.200.37	Attorney (st) Attorney (st) Attorney (st) Attorney (st) Attorney (st) Attorney (st) Outern 2: s1 1:0.0004:121:11 Attorney (st) Storney (st) Outern 2: s1 Storney (st) Attorney (storney (st)) Storney (st) Investige Storney (st)
AGO REMAINING IDENTIFY			400 REMAINING DENTIFY		

- 19. Select the **Preset** button (circled below) to have sources and presets become available for selection and adding.
- 20. The sources will not be selectable until a preset has been added, press the **ADD** button (circled below) in the Presets field. A pop up will appear.
- 21. Name the preset and press the enter key to close or select the close button.
- 22. Add as many presets as needed.

a **Panduit** company



23. Select the source and drag and drop it into the decoders. The source will appear over one of the displays as a different colored square.

				Video Wall Configuratio	on ID- 5c702dfee	04d94	Dca87	cf70c							
Sources	^	Pixel Space	Ģ			0	ø	ô	1	1	Q	φ	8-	5	\sim
ATCANN-1110 Plates 5000 Plat 300 ATCANN-1210 Plates 5000 ATCANN-1211 Plates 5000 ATCANN-6121 Plates 5000 ATCANN-6120 Plates 5000 ATCANN-6120 Plates 5000				AT-04084-62211 10.20.200.99	ATOVA-112.10 Pattern 10001 Per 100					AT-0 10.3	3 MN-121:1 20.200.139				
AFCONDUST21 PAdees 255519 Presets	* 101	Pett D+Con Spin 1520 x 1980pe		AT-OANI-122 1:2 10.20.200.131		Pes 1920 e1 Size 1920 e 10	194 100×			AT-0.	MNI-122 1:1 20.200.131				
EDIT ADO DELETE CO	¢γ	Pos 9 a 1000ps Sect 1522 x 1900px				Pros. 1920 x 10 Gen: 1922 x 13									

			Vi	deo Wall Configurati	on ID- 5c702dfee	04d940	Dca87	cf70c							
Sources	^	Pixel Space	P #			ø	Ø	ô	Î	/	Q	۰ ئ	8.	5	a
ATOMN-1110 PAlase 25641 Per 100 ATOMN-1210 PAlase 25641 Per 100 ATOMN-1211 Palase 15641 Per 100 ATOMN-1201 Per 100 Atoms 15551 Per 100 Atoms 15551 Per 100		Pro di Alton Ser 1972 a 1980a	,	AT-OMM-6211 T-OMM-6212 (225.0.0.1:1000)	/ ×	Pro: 1029 + 0 Sec: 1022 + 1	lar.			AT-C 10.3	MNI-121:1				
Presets	(1)			AT-OAMH-122 12 10.20.200.131						AT-01 10.3	WNI-122 1:1				
		Perc Dix Holliex Size 1928 > 1080px				Pte: 1520 x 100 Sign: 1520 x 100	Nox Nov								



Video Walls

- x Video Wall Configuration ID- SchOzdfee04d940ea87cf70c
- 24. Select the source square and arrange it over the decoders it should display on. Placing it centered over intersecting lines will have it fill up all the connected decoders.





×				Vid	eo Wall Configuration ID- 5c702dfee	04d94	0ca8	7cf	70c								
Sources	^	Pixel Space	Ģ			ø	ø		ô	1	1	٩		φ	8.	5	\sim
ALDANDATIO PARMINI 2003 PARMINI 2003		AND TO NOT			AFONE 6711 19.35 200 93 ATOMN 228.60						AT TC	CMNI-12 20.200.1	1:1				/
Presets	^				AF-OMM-122.1:2 10.20.200.131						AT- 10	0MNI-122 .20.200.1					
EDIT AOD DELETE	D) COPY																
		Pox:0 x0px Bible 36HD x 21H00x															

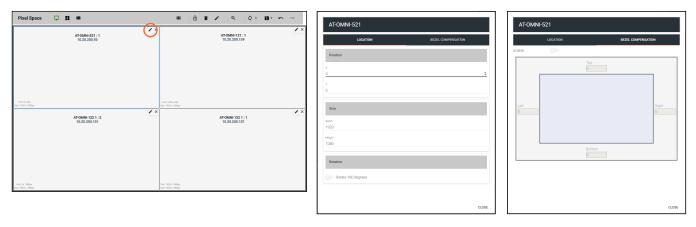
D	NOTE: The preset being currently set is highlighted in blue on the left.
Ð	NOTE: Multiple sources can be used in a
9	preset, each will show up in different colors.

If the video wall picture is satisfactory, continue with step 26. If picture adjustment is needed to compensate for the display's bezel, continue to step 27.

26. Select the **save** button (circled above) and exit out of the configuration screen once complete.

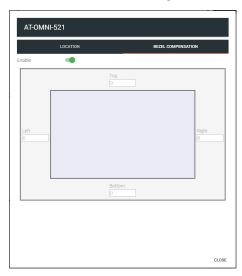
27. Select the edit button (circled below) on the top right of the display field. A pop up will appear.

28. Select the Bezel Compensation tab.





- 29. Select the Enable slider to allow for bezel compensation. The bezel fields will unlock.
- 30. Type or use the arrows to adjust the bezel pixel size in each area that requires compensation. e.g. If the display is in the top left of the video wall, the right and bottom bezel should be compensated for.





NOTE: If wanting to adjust the bezel in a format other than pixel, return to the device view within the device list from configuration and open the HDMI OUTPUT tab. Scroll to the under the Video Wall slider and select the unit type for adjustment (Pixels, Millimeters, or Inches). Select Bezel Compensation from the Edge Compensation drop down and then enter the correct amount, before pressing the save button.

Video Wall	Enable		
	Unit		
	Pixels	~	
	Display Width		
	1920		
	Display Height		
	1080		
	Horizontal		
	0		
	Vertical		
	0		
	Rotation (*)		
	0	~	
	Edge Compensation		
	None	-	

Edge Compensation	
Bezel Compensation	∇
Тор	
0	
Bottom	
0	
Left	
12	
Right	
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