

Release Notes



IMPORTANT: Before updating OmniStream units, read the Update Instructions in the included AT-OMNI Firmware.pdf file.

Instructions

To upgrade single-channel units, use the AT-OMNI-1x1-upgrd-os-1.2.1.vpup file.

To upgrade dual-channel units, use the AT-OMNI-1x2-upgrd-os-1.2.1.vpup file.

To upgrade R-Type units, use the AT-OMNI-5xx-upgrd-os-1.2.1/vpup file.

Public Release

Version 1.2.1

Features	<p>OmniStream Pro</p> <ul style="list-style-type: none"> HDMI 2.0 support. HDCP 2.2 support. Video mode - optimizes video quality to support motion-video content. Supports High Dynamic Range (HDR): HDR10 and HLG. IEEE 802.1X Device Authentication. Full RS-232 over IP pass-through using TCP Proxy. Audio over IP: Simultaneous AES67 and OmniStream RTP audio pass-through. IR Support: IR pass-through from encoder to decoder (upstream) or from decoder to encoder (downstream). Encoder Grouping. Video Wall Telnet API - Enables third-party control for configuring video walls using Telnet protocol. High Bit Rate Audio - Supports pass-through of high bit rate audio formats: Dolby® Atmos®, Dolby True HD, DTS®:X, and DTS-HD Master Audio™ <p>OmniStream R-Type</p> <p>* NOTE: R-Type units already support HDMI 2.0, HDCP 2.2, HDR, AES67, and IR. Release 1.2.1 adds the following support:</p> <ul style="list-style-type: none"> Full RS-232 over IP pass-through using TCP Proxy. Video Wall Telnet API - Enables third-party control for configuring video walls using Telnet protocol. High Bit Rate Audio - Supports pass-through of high bit rate audio formats: Dolby® Atmos®, Dolby True HD, DTS®:X, and DTS-HD Master Audio™
Bug Fixes	<p>Encoder</p> <ul style="list-style-type: none"> #3554 - For HDCP sources that are only capable of HDCP 1.4, the encoder HDCP mode must be forced to HDCP 1.4. #4428 - Setting AppleTV to “Best Available” audio results in no audio detected during movies. #4971 - Slate insertion doesn’t work on the encoder. #5041 - While HDR does pass correctly, the encoder’s HDR indicator doesn’t show HDR for some sources, such as Xbox One S/X, PS4 Pro, and DirecTV C61K-700. #5043 - To prevent VQ issues, Kaleidescape Strato should be set to “Use External Scaler” mode and set to 1080p. This prevents menus from rendering in UHD. #5087 - HBR audio formats (Dolby® Atmos®, Dolby TrueHD, DTS®:X, DTS-MA) were temporarily removed from encoder EDIDs due to decoder issue #3761. #5098 - DirecTV STBs loses 720p as an option, forcing the use of 1080i for non-UHD channels. #5149 - 1080i VQ needs improvement. #5156 - Video generator on encoder doesn’t work. #5171 - IR pass-through does not function.

Version 1.2.1

Bug Fixes

Encoder (continued)

- #5194 - Web GUI window for alarm descriptions is sometimes too small, resulting in truncated alarm messages.
- #5224 - VESA resolutions should not be available for R-Type.
- #5228 - **Pro only:** When both sessions are mapped to the same interface, audio from session 2 is corrupted.

Decoder

- #5273 - If dual sources are connected, one is UHDp60, and only one PoE is connected, the second input should not work and an alarm should be raised stating that dual PoE is needed.
- #3645 - Output drops when decoder is configured for ultra-low latency mode and UHD output.
- #3761 - HBR audio formats (Dolby Atmos, Dolby TrueHD, DTS:X, and DTS-MA) aren't supported on the decoder.
- #3821 - **Pro only:** Pausing audio on PC sources sometimes triggers audio redundancy switching.
- #4002 - Infrequent drops with some 720p inputs.
- #4554 - Partial fix: Video wall size is limited to 5x5 within the web GUI. Larger wall sizes can be created over Telnet/API or using the Velocity Video Wall configurator.
- #4995 - **Pro only:** Polarity of analog input is wrong.
- #5002 - Enabling logo on the decoder with a UHDp60 source causes the output to blink and the unit becomes inaccessible.
- #5042 - Compressed audio from Kaleidescape Strato is unstable. The issue is not seen with PCM audio from the Strato.
- #5164 - Automatic bit depth reduction based on the sink's EDID is done without any indication to the user.
- #5177 - Decoder audio downmix is missing "auto" mode which should function based on the EDID of the connected device.
- #5193 - Unit requires one extra reboot after an upgrade to get the decoder audio downmixing to work properly.
- #5212 - **R-Type only:** IR should only be allowed on serial port 2, but is also allowed on serial port 1.

Known Issues

General

- OmniStream Rev B hardware does not support the video generator option. This will be added in a future release.
- OmniStream Rev B hardware does not support text insertion. This will be added in a future release.
- OmniStream Rev B hardware does not support HDMI 2.0.
- OmniStream Rev B hardware does not support HDCP 2.2.
- OmniStream Dual-Channel Decoders do not support HDCP 2.2.
- Logo Insertion: When using UHDp60 video, the logo image size must not exceed 30% of the UHD image size.
- AES67 with QSC: When streaming AES67 audio from an encoder to a QSC DSP (110f, 250i, or 500i), the QSYS sometimes stops seeing SDP messages from the encoder. Work-around: Hardcode the multicast address on the AES67 block.
- AES67 output gets corrupted due to a different GM (grandmaster) clock taking over. To prevent this issue, manually set one of the encoders to be the GM clock.
- **Pro only:** Both single-channel and dual-channel OmniStream encoders and decoders, regardless of hardware revision, are limited to one channel of IR pass-through.

Version 1.2.1

Known Issues

Encoder

- #2304 - Manual switching sometimes causes brief HDCP snow before displaying content.
- #3764 - Output keeps blinking when the FEC matrix values are set to greater than or equal to 7x7.
- #4862 - For LG TVs, if source is lost, the decoder causes the TV to show a green screen.
* **NOTE:** this is often seen when doing channel changes on DTV STBs.
- #5156 - Video generator does not work when color subsampling is set to 4:2:0.
- #5258 - **Pro only:** When streaming two video services over one Ethernet, only one AES67 session is supported.
- #5286 - Visual quality of logo is degraded when setting the logo in “stretch” mode when using UHD image size.
- #5711 - When the unit is configured for 802.1X, and no RADIUS server is detected, the encoder does not revert to normal mode.
- #5924 - Cannot set the Ethernet interface to “not used” if AES67 is enabled on the session.

Decoder

- #2210 - Units that use the external power supply won’t connect to some switches with PoE enabled.
* **NOTE:** This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches.
- #2286 - “Green screen” is displayed on LG 65UH9500 when the encoder input is disconnected.
- #2293 - No video output on LG 65UH9500 with HDCP disabled on decoder.
- #4727 - Decoder slate insertion for UHDp60 sources results in incorrect colors.
- #4895 - On rare occasions, when subscribing to a source, the decoder outputs vertical purple lines. Re-subscribing corrects the issue.
- #4918 - On rare instances, the decoder loses HDCP handshake with Sony TV and displays “ip_inputX cannot be decoded” alarm. A decoder reboot recovers the signal.
- #4972 - Automatic slate insertion doesn’t work on the decoder.
- #6147 - When the unit is configured for 802.1X, and no RADIUS server is detected, the decoder does not revert to normal mode.

Will Not Fix

Encoder

- #5106 - **Pro only:** Early OmniStream Pro units cannot handle dual UHDp50/60 inputs and will display an alarm stating this. Contact Atlona Technical Support for details.
- #5272 - Dual 4Kp60 encoding requires dual PoE Ethernet connections or an external power supply.

Decoder

- #4558 - AES67 output gets corrupted due to a different GM (grandmaster) clock taking over. To prevent this issue, manually set one of the encoders to be the GM clock.

Previous Releases

Version 1.2.0	
Features	<ul style="list-style-type: none"> • General availability for OmniStream R-Type hardware - AT-OMNI-5xx. • Limited availability for OmniStream Pro hardware - AT-OMNI-1xx. <ul style="list-style-type: none"> » Contact Atlona support to discuss installing 1.2.0 on OmniStream Pro hardware. • HDMI 2.0 including support for inputs up to UHDp60 12-bit 4:4:4. • HDCP 2.2 support. • Supports HDR pass-through – HDR10 and HLG (including for video walls). • New “Video” system mode optimized for video-based content. • AES67 audio support. • PCM downmix on the encoder. • Simultaneous AES67 and OmniStream RTP audio (pass-through) output.
Bug Fixes	<p>Encoder</p> <ul style="list-style-type: none"> • #1700 - Encoder cannot detect 4:2:0 inputs. • #1915 - Encoder is missing support for encoding using 4:2:0 chroma subsampling. • #2173 - Compatibility issues with Mozilla Firefox web browser. • #2624 - RTCP value set to True causes the network interface to crash. • #2802 - Encoder doesn't see any input from Axis M3045v camera. • #3912 - Audio formats other than PCM, Dolby Digital (AC-3), and DTS aren't recognized by the encoder. • #4146 - Noticeable A/V sync issues caused by OmniStream, with compressed audio sources making the symptom the most obvious. • #4460 - mDNS response doesn't include the unit model name. • #4511 - Units allow installation of incorrect firmware files, risking bricked units. • #4631 - Pro only: Encoder group status change doesn't trigger any notification. • #4775 - 720p EDIDs should not include 1080i. • #4797 - Units allow import of config files from other models, risking bricked units. • #4909 - Default EDIDs for Video mode should support 1080i. • #5154 - mDNS response is missing a unique non-changing ID. <p>Decoder</p> <ul style="list-style-type: none"> • #2237 - Decoder should show an alarm if the input cannot be processed. • #2246 - Display sometimes shows HDCP snow, even with non-HDCP sources. • #2529 - Audio/video sync off slightly under normal circumstances. • #4513 - Decoder reporting an inaccurate framerate alarm for p59.94 sources. • #4883 - Audio downmix on the decoder not working properly. • #4903 - Decoder should automatically reduce bit depth as needed based on sink EDID. • #4983 - Auto resolution mode should be improved to pass supported resolutions. untouched, and scale unsupported resolutions. • #4995 - Pro only: Polarity of analog input is wrong. • #5144 - Default resolution mode for Factory Reset should be set to Auto.

Version 1.2.0

Known Issues

Encoder

- #2304 - Manual switching sometimes causes brief HDCP snow before displaying content.
- #3554 - For HDCP sources that are only capable of HDCP 1.4, the encoder HDCP mode must be forced to HDCP 1.4.
- #4428 - Setting AppleTV to “Best Available” audio results in no audio detected during movies.
- #4862 - For LG TVs, if source is lost, the decoder causes the TV to show a green screen.
* **NOTE:** this is often seen when doing channel changes on DTV STBs.
- #4971 - Slate insertion doesn’t work on the encoder.
- #5041 - While HDR does pass correctly, the encoder’s HDR indicator doesn’t show HDR for some sources, such as Xbox One S/X, PS4 Pro, and DirecTV C61K-700.
- #5043 - To prevent VQ issues, Kaleidescape Strato should be set to “Use External Scaler” mode and set to 1080p. This prevents menus from rendering in UHD.
- #5087 - HBR audio formats (Dolby® Atmos®, Dolby TrueHD, DTS®:X, DTS-MA) were temporarily removed from encoder EDIDs due to decoder issue #3761.
- #5098 - DirecTV STBs loses 720p as an option, forcing the use of 1080i for non-UHD channels.
- #5149 - 1080i VQ needs improvement.
- #5156 - Video generator on encoder doesn’t work.
- #5171 - IR pass-through does not function.
- #5194 - Web GUI window for alarm descriptions is sometimes too small, resulting in truncated alarm messages.
- #5224 - VESA resolutions should not be available for R-Type.
- #5228 - **Pro only:** When both sessions are mapped to the same interface, audio from session 2 is corrupted.
- #5273 - If dual sources are connected, one is UHDp60, and only one PoE is connected, the second input should not work and an alarm should be raised stating that dual PoE is needed.

Decoder

- #2210 - Unit with external PSU won’t connect to PoE enabled Cisco Catalyst 2960-X.
- #2286 - LG 65UH9500 displays a green screen when there is no input to the system.
- #2293 - No video output on LG 65UH9500 with HDCP disabled on decoder.
- #3645 - Output drops when decoder is configured for ultra low latency mode, UHD output, and video wall is disabled.
- #3761 - HBR audio formats (Dolby Atmos, Dolby TrueHD, DTS:X, and DTS-MA) aren’t supported on the decoder.
- #3821 - **Pro only:** Pausing audio on the PC source sometimes triggers audio redundancy switch.
- #4002 - Infrequent drops with some 720p inputs.
- #4544 - AES67 input on the decoder isn’t stable.
* **NOTE:** The AES67 from the encoder works fine with other AES67 receivers.
- #4554 - Videowall semi-automatic configuration currently limited to 5x5.
- #4727 - Decoder slate insertion for UHDp60 sources results in incorrect colors.
- #4895 - On rare occasions, when subscribing to a source, the decoder outputs vertical purple lines. Re-subscribing corrects the issue.
- #4918 - On rare instances, the decoder loses HDCP handshake with Sony TV and displays “ip_inputX cannot be decoded” alarm. A decoder reboot recovers the signal.
- #4972 - Automatic slate insertion doesn’t work on the decoder.

Version 1.2.0

Known Issues

Decoder (continued)

- #5002 - Enabling logo on the decoder with a UHDp60 source causes the output to blink and the unit becomes inaccessible.
- #5042 - Compressed audio from Kaleidescape Strato is unstable. The issue is not seen with PCM audio from the Strato.
- #5164 - Automatic bit depth reduction based on the sink's EDID is done without any indication to the user.
- #5177 - Decoder audio downmix is missing "auto" mode which should function based on the EDID of the connected device.
- #5193 - Unit requires one extra reboot after an upgrade to get the decoder audio downmixing to work properly.
- #5212 - IR should only be allowed on serial port 2, but is also allowed on serial port 1.

Version 1.1.0

Features

- Video wall with bezel compensation added to decoder.
- Encoder grouping with auto input switching between group members.
- Slate (full-screen picture) insertion.
- Scrolling ticker insertion.
- EDID export / import

Bug Fixes

- #1558 - Decoder is slow to rejoin stream after reboot.
- #2092 - No progress indicator while importing configuration information.
- #2099 - Video blinks whenever the output volume is changed.
- #2117 - Debug file takes multiple clicks to download.
- #2205 - Toggling analog input/output causes video/audio loss.
- #2211 - Setting analog audio output to “disabled” doesn’t work.
- #2225 - Stability issues with Roku 4 Ultra as a source.
- #2270 - Unable to assign a single ip_input to multiple outputs.
- #2280 - Manipulation of HDMI cable on one input causes the other input to blink.
- #2291 - HDCP status LED on decoder sometimes shows incorrect state.
- #2303 - Add telnet/SSH/RS232 notification for HDMI input disconnection.
- #2365 - Decoder Ethernet interface becomes unresponsive if speed is set to 100 Mbps.
- #2375 - Missing volume up/down commands for telnet/SSH/RS232.
- #2403 - Missing EDID with maximum resolution of 2560x1600p60.
- #2404 - 1080i status was incorrectly shown as 540i.
- #2405 - Encoder video generator doesn’t work with bitrate set to 898 Mbps or higher.
- #2407 - HDCP status LED on decoder sometimes shows incorrect state.
- #2410 - OmniStream sometimes reporting incorrect MAC to switch ARP requests.
- #2450 - Slow access to Telnet/SSH due to improper DNS settings from DHCP server.
- #2505 - Decoder redundancy switches to ip_input even if it is disabled, causing the decoder to continuously jump between inputs.
- #2555 - Missing ability to disable username/password authentication on Telnet (port 23 and port 2323) interfaces.
- #2573 - Telnet/SSH/RS232 not reporting compressed audio sources properly.
- #2574 - Telnet/SSH/RS232 responses for AudioBackupMode command are incorrect.
- #2576 - Telnet/SSH/RS232 ActiveAudioInput command reports incorrectly.
- #2623 - Changing IP input parameters triggers erroneous redundancy switch.
- #2626 - Serial Use 1 left blank after resetting to factory defaults.
- #2647 - Changing volume of a compressed source results in corrupted output.
- #2667 - Cannot use AuxSourceX command to assign serial_port1 to session 1.
- #2668 - Resetting to default settings does not enable scrambling on the decoder.
- #2671 - Resetting to default settings does not configure the ip_input multicast values for audio multicasts.
- #2731 - Buttons option present in the WebGUI of single channel encoder.
- #2852 - Internal cooling fans run at full speed, are very loud, and do not reduce speed until a reboot.
- #3328 - Encoder factory reset does not properly map audio inputs.

Version 1.1.0	
Bug Fixes	<ul style="list-style-type: none"> • #3342 - Default EDID is missing Dolby TrueHD. • #3408 - Analog output left channel polarity is reversed. • #3794 - Some logo width values cause the logo to not be displayed. • #3826 - Logo is lost when output is physically moved to a different TV.
Known Issues	<ul style="list-style-type: none"> • #2210 - Units that use the external power supply won't connect to some switches with PoE enabled. <ul style="list-style-type: none"> * NOTE: This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches. • #2246 - HDCP snow is produced on some Sony TVs. <ul style="list-style-type: none"> * NOTE: The OmniStream unit will typically recover, automatically. If it does not recover, then saving the decoder configuration 2 - 3 times will recover it. • #2286 - Green screen on LG 65UH9500 when encoder input is disconnected. • #2293 - No video output on LG 65UH9500 with HDCP disabled on decoder. • #2304 - Manual switching sometimes causes brief HDCP snow before displaying content. • #2637 - Clicking save on the HDMI output section sometimes causes video/audio to drop. • #3645 - Output drops when decoder is configured for ultra-low latency mode and UHD output. <ul style="list-style-type: none"> * NOTE: To prevent this issue, set the output resolution to less than or equal to 1080p or change the decoder latency mode to "sub frame latency". • #3764 - Large FEC matrix configuration sometimes causes video drop-outs. • #3821 - Pausing audio on PC sources sometimes triggers audio redundancy switching. • #3878 - Slate insertion API commands for Telnet/SSH/RS232 are missing. • #3895 - Automatic slate insertion is slow. • #3912 - Audio formats, other than PCM, Dolby Digital (AC-3), and DTS don't work. • #3900 - Audio sources that don't properly flag bit depth are indicated as "N/A", and should be displayed as "Unknown". • #3909 - When scrolling ticker text begins, small dots appear at the beginning of the text string. • #3940 - Video wall inch/mm configuration isn't implemented properly. • #3949 - When part of an encoder group, pressing the Display button, on the front panel, doesn't make the encoder active. • #3957 - Auto-slate doesn't work with encoder group auto-switching. • #3985 - Encoder groups don't work properly with Session 2 on dual-channel encoders. • #3995 - Slate on encoder doesn't work for UHDp30 sources.
Will not fix	<ul style="list-style-type: none"> • #3655 - Decoder connected to a 100 Mbps interface can't decode video.

Release Notes

Version 1.0.5	
Features	<ul style="list-style-type: none"> • None
Bug Fixes	<ul style="list-style-type: none"> • #2448 - Extron controller causes OmniStream units to fail. • #2855 - Updating single-channel units with dual-channel firmware (or dual-channel units with single-channel firmware) will irreperably damage the unit. • #2891 - Temperature information is missing from the debug file.
Known Issues	<ul style="list-style-type: none"> • #1558 - Decoder is delayed by approximately 1 minute when sending an IGMP join request after a reboot. • #2291 - HDCP GUI indicator is incorrect / backwards. • #2205 - Toggling analog audio on/off causes loss of both video and audio until the unit is rebooted. • #2210 - Units that use the external power supply won't connect to some switches with PoE enabled. <ul style="list-style-type: none"> * NOTE: This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches. • #2225 - Signal dropouts have been observed when using the Roku 4 Ultra as a source. • #2246 - HDCP snow is produced on some Sony TVs. <ul style="list-style-type: none"> * NOTE: The OmniStream unit will typically recover, automatically. If it does not recover, then saving the decoder configuration 2 - 3 times will recover it. • #2286 - "Green screen" observed on LG 65UH9500 when the encoder input is disconnected. • #2292 - Standby / cool-down options not working properly through RS-232. • #2304 - Manual switching sometimes causes brief HDCP snow before displaying content. • #2365 - Both the single-channel (AT-OMNI-121) and dual-channel (AT-OMNI-122) will not respond if the interface speed is set to 100 Mbps.
Will not fix	<ul style="list-style-type: none"> • None

Release Notes

Version 1.0.4	
Features	<ul style="list-style-type: none"> • Supports single-channel units (AT-OMNI-111 and AT-OMNI-121). • Added ability to define custom RS-232 commands using JSON.
Bug Fixes	<ul style="list-style-type: none"> • #2638 - 1080i status incorrectly displayed as 540i. • #2395 - OmniStream sometimes reports the incorrect MAC address to switch ARP requests. • #2398 - Encoder video generator now works with the bitrate set to 898 Mbps or higher. • #2445 - Slow access to Telnet / SSH due to improper DNS settings from DHCP server. • #2681 - RTCP causes issues with some units. • #2835 - In SSH, the SessionScrambleX sta command output no longer returns a blank value. • #2837 - In SSH, both the SessionScrambleKeyX sta / DescrambleKeyX sta commands no longer returns a blank value when no scrambling key is configured. • #2839 - In Telnet / SSH, the AudioActiveStatusX sta command now displays the proper status.
Known Issues	<ul style="list-style-type: none"> • #1558 - Decoder is delayed by approximately 1 minute when sending an IGMP join request after a reboot. • #2205 - Toggling analog audio on/off causes video and audio loss until the unit is rebooted. • #2210 - Units that use the external power supply won't connect to some switches with PoE enabled. <ul style="list-style-type: none"> * NOTE: This issue is seen on Cisco Catalyst-series switches, but not on Cisco SG300-series switches. • #2225 - Signal dropouts have been observed when using the Roku 4 Ultra as a source. • #2246 - HDCP snow is produced on some Sony TVs. <ul style="list-style-type: none"> * NOTE: The OmniStream unit will typically recover, automatically. If it does not recover, then saving the decoder configuration 2 - 3 times will recover it. • #2286 - "Green screen" observed on LG 65UH9500 when the encoder input is disconnected. • #2291 - HDCP GUI indicator is incorrect / backwards. • #2292 - Standby / cool-down options not working properly through RS-232. • #2304 - Manual switching sometimes causes brief HDCP snow before displaying content. • #2365 - Both the single-channel (AT-OMNI-121) and dual-channel (AT-OMNI-122) will not respond if the interface speed is set to 100 Mbps. • #2448 - Extron controller causes OmniStream units to fail. • #2573 - In Telnet / SSH, the audio status for compressed sources is corrupted. • #2647 - Changing the output volume of compressed sources causes the output to be corrupted.
Will not fix	<ul style="list-style-type: none"> • #2288 - Touching the HDMI connector to the decoder chassis will occasionally cause the decoder to reboot. <ul style="list-style-type: none"> * WORKAROUND: Connect all devices to a common ground plane. • #2813 - Occasionally, after performing a firmware update, setting the decoder output to anything other than "Input" causes a loss of the output signal. <ul style="list-style-type: none"> * WORKAROUND: Perform a factory reset and reconfigure all settings.

Release Notes

Version 1.0.0

Features	<ul style="list-style-type: none">• Factory firmware
Bug Fixes	<ul style="list-style-type: none">• None at this time
Known Issues	<ul style="list-style-type: none">• #1558 - Decoder is delayed approximately 1 minute in sending an IGMP join request after a reboot.• #2205 - Toggling analog audio on/off causes video and audio loss until the unit is rebooted.• #2210 - Encoders/decoders that use the (optional) external power supply won't connect to some switches with PoE enabled.<ul style="list-style-type: none">* NOTE: This issue has been seen on Cisco Catalyst, but is not seen on Cisco SG300• #2225 - Signal drops when Roku 4 Ultra is used as a source.• #2246 - HDCP "snow" will be displayed on some Sony displays.<ul style="list-style-type: none">* NOTE: The unit will typically recover automatically. If the unit does not recover, save the decoder configuration 2 to 3 times will resolve the issue.• #2286 - "Green screen" is displayed on LG 65UH9500 when the encoder input is disconnected.• #2288 - Touching the HDMI connector to the decoder chassis will occasionally cause the decoder to reboot.• #2292 - Standby / cooldown options not working properly for RS-232.• #2304 - Manual switching sometimes causes brief HDCP snow before displaying content.