

Release Notes AJA Desktop Software v15.1

Windows v15.1 drivers and software for KONA, Io and T-TAP

Introduction

AJA Desktop Software

This unified software, driver and firmware package contains everything you need in order to start using your AJA video I/O hardware. The following AJA applications are installed:

- AJA Control Panel v15.1: For setup and control of your AJA KONA, Io or T-TAP product, including firmware updates.
- AJA Control Room v15.1: For high quality capture, playback and output.
- AJA System Test v15.1: For testing storage to determine if it will be possible to sustain frame rates for chosen format(s).

Operating System

- This version of AJA's unified software package is compatible with Windows 10, Windows 8.1 and Windows 7. For demanding workflows using 4K/UltraHD, Multi-Stream I/O, and/or higher frames rates, AJA recommends Windows 10.
 - o Before running this installer, uninstall all previous versions of AJA XENA, AJA KONA or AJA Windows software.
- AJA recommends running this installer as an Administrator. To do this, right click on the installer and select 'Run As
 Administrator'. The 'Run As Administrator' option may not be present if Windows User Account Control (UAC) is turned off.
- For additional hardware recommendations and requirements, please see:

http://www.aja.com/en/support/kona-pc-system-configuration/

- Important: Check the Known Issues and Limitations section near the end of this document.
 - o See recommendations around Windows Sleep / Hibernation / Fast Boot.

3rd party Software Support

AJA KONA, Io and T-TAP hardware is used by many software and systems manufacturers, who provide their own software for user installation. The links below provide a guide to software support AJA is aware of, with additional software support being added frequently. Please contact the appropriate software vendor for information on whether AJA software or drivers are required when using their application. AJA recommends the latest released versions of 3rd party software for best performance:

https://www.aja.com/compatibility/kona https://www.aja.com/compatibility/io

AJA hardware also comes with out-of-the-box support for Adobe, Avid and Telestream applications on Windows as follows:

- Adobe Premiere Pro, After Effects, Photoshop, Prelude, Audition 2019*, 2018, 2017
- Avid Media Composer 2018.x*, 8.10, 8.9, 8.8, 8.7, 8.6, 8.5, 8.4
- **Telestream** Wirecast 11.x, 10.x, 9.x, 8.x, 7.x, 6.x

*In some cases, software vendors are no longer supporting Windows 7 and Windows 8.1, so while the AJA unified package may support those OS versions, it may not be possible for AJA to support customers or troubleshoot issues, if problems arise with an OS that is no longer supported by 3rd party software vendor(s).

Relevant Products

The following products benefit from this update:

Io 4K Plus KONA 5
Io IP KONA IP
Io 4K KONA 4
Io XT KONA 1
Io Express (PCIe) KONA HDMI
T-TAP KONA LHi
Avid Artist DNxIV KONA LHe Plus

New Features in v15.1

Avid Artist DNxIP

- AJA Control Room has numerous user interface enhancements including, but not limited to:
 - Full screen monitoring of video Playback or Capture including new keyboard shortcuts for fast toggling.
 - o The ability to add/remove AJA Control Room windows to create custom interface layouts.
 - o Please see manual for more details including a full list of all new functionality, icons and keyboard shortcuts.
- AJA Control Panel now includes the ability to use TOD (Time-of-Day) Timecode during Capture. Time is based on the host system clock which the AJA KONA or Io is connected to/installed within.
- When exiting Adobe Premiere Pro after using an AJA device to display HDR material, AJA Control Panel will now automatically turn off HDR settings. Next time Adobe Premiere Pro is launched and an HDR project selected, AJA Control Panel will again enable display of HDR content.
- Implemented 4K/UHD HDMI input support for Wirecast in AJA Multi-Config, with KONA HDMI, to 4K Plus, to 4K.
- KONA 5, Io 4K Plus and Avid DNxIV now provide a simultaneous down-convert of 4K/UHD to 2K/HD via SDI #4, when outputting 4K/UHD over 12G-SDI (from SDI #3). When using 2SI (two sample interleave) the image will be subsampled, when using square division the image is down-converted.
- KONA 5, Io 4K Plus and Avid Artist DNxIV now support RGB 444 UHD Level A and Level B.
- KONA 5, KONA 4, Io 4K Plus, Avid Artist DNxIV and Io 4K now support 47.95/48P for 2K and 4K, for both Level A and Level B.
- KONA HDMI can be used for capture within Adobe Premiere Pro Capture Window (vs. AJA Control Room only).
- KONA HDMI can be used for capture within Avid Media Composer Capture Tool (vs. AJA Control Room only).
- KONA IP SMPTE ST 2110 firmware and software combination now supports SDP grouping.

Recommendations in v15.1

• For best results when capturing using Avid Media Composer or AJA Control Room, set Ref In to Video In with AJA KONA, AJA Io products and Avid DNxIV, DNxIP. Here as a reminder, this recommendation began with v14.3.

Fixes, Changes and Improvements in v15.1

Note: Items below are identified against the main AJA products affected.

These same issues may have also affected other AJA products that are not specifically called out.

• Solved problem whereby upon activing "Digital Scrub" in Avid Media Composer (Caps Lock or Shift) and then scrubbing, the video output from the AJA hardware appears to freeze.

- Addressed issue with Avid Media Composer and ProTools, where garbage video was being displayed upon initial launch with AJA card or device.
- Avid/AJA have confirmed a fix for an issue which caused Media Composer to guit unexpectedly on exit with AJA hardware.
- Solved ANC data being inadvertently captured from SDI input, when HDMI selected as source for Avid Media Composer with AJA Io 4K Plus and Avid DNxIV.
- Adobe/AJA have confirmed the resolution of a problem whereby when in Adobe Premiere Pro, upon setting the AJA Capture Settings dialog to Control Panel, these changes were unsaved.
- Resolved problem when using Adobe Premiere Pro with KONA 5 which caused 4K/UHD content playback to be compromised when Audio Hardware set was to ASIO.
- Solved inability to add 1080P 59.94 sources presented via 3G-SDI from some AJA devices, clip loaded would just show black
- Fixed failure to save "Follow Input" within a preset in AJA Control Panel.
- Solved problem in AJA Control Panel, where inputs would be detected as 'sf' instead of 'i', when the frame buffer progressive/interlace setting didn't match the incoming signal.
- Overcame problem in AJA Control Panel causing a Firmware update progress-bar malfunction along with a delay in update completion.
- Resolved problem following a Preferences Reset in AJA Control Room, whereby if a capture path was not set, initiating a
 capture could cause a disabled state.
- Rectified issue with 2K HDMI inputs on various AJA devices such that when in input-passthrough, the result was PSF on SDI outputs.
- Solved item where Closed Captioning output ceased upon switching between clips of differing frame rates/rasters in AJA
 Control Panel.
- Fix applied to the Analog Video Setup contextual menu in AJA Control Panel, removing incorrect options (for relevant AJA hardware).
- Fixed behavior in AJA Control Room with various AJA devices such that closed-captions were playing back formatted for 708 instead of 608 ANC.
- Overcame issue where RGB Output over 3G-SDI Level A, produced bad color from several AJA 3G-SDI capable cards and devices. Important Note: AJA desktop cards and devices do not at this time support RGB 3G-SDI Level A Input.
- Overcame problem with numerous products getting into a state where Closed Captions incoming to AJA Control Panel would not display correctly.
- Rectified HD HFR inputs not routing correctly for RGB capture in AJA Control Panel across several desktop products.
- Solved issue with AJA Control Panel where Reference input would switch to LTC, when right-clicking to select a different SDI input, across some devices.
- Solved incorrect field-order for HDMI interlaced captures with Io 4K Plus, DNxIV, Io4k, and KONA HDMI.
- Fixed visual artifacts on right side of picture with KONA 4 and lo 4K when outputting HFR Level B.
- Solved problem where SD analog video output was not being setup correctly with KONA 4.
- Fixed AJA Control Panel crash triggered via selection of DSK, while a 12G-SDI 4K signal is presented for input when using Io 4K Plus, DNxIV or KONA 5.
- Solved problem causing "Delete Media" commands to sometimes fail in AJA Control Room.
- Frame buffer format VPID was inadvertently being passed to down-converted outputs with Io4k (UFC firmware), IoXT, Kona4 (UFC firmware).
- Overcame issue whereby SDI 5 (Down converted Monitor Output) on Io 4K Plus, DNxIV, or Io 4K, had bad video on either 12G and/or 2SI UHD/4k HFR formats.
- Rectified a line reversal present for HDMI input pass-through with Io 4K.
- Fixed analog audio output phase shift at high frequency across Io 4K, Io 4K Plus and DNxIV.
- Fixed error causing audio drop-outs every 20-30 seconds over HDMI output when set to RGB-10, with AJA Io 4K Plus or Avid DNxIV.
- Solved HDMI audio output timing errors stemming from format change or Thunderbolt 3 plug cycle, with AJA Io 4K Plus or
 Avid DNVIV
- Solved issue causing HDMI to be not properly detecting RGB 10-bit inputs, and some associated instability stemming from that detection problem.
- Corrected issue whereby AJA System Test would fail to perform capture test, when T-Tap connected to host.
- Rectified behavior such that upon uninstall, if still running, Control Panel will be shut down to avoid a forced restart.
- Rectified issue where 1080p HFR 3G-SDI inputs were erroneously detected as 1080i LFR signals with KONA LHi.
- Rectified problem in AJA Control Room where Timecode on output is 1 frame late vs. currently visible frame after Play>Stop cycle.
- Resolved problem in AJA Control Panel preventing firmware version check & notification functioning.

- Corrected lack of Analog Video detection in AJA Control Panel, despite input signal being present with KONA LHi.
- Fixed AJA Control Panel behavior so that inputs no longer show blue (indicating a signal present) when no video is yet preset yet (False Positive) with KONA IP running SMPTE ST 2110 firmware.
- Solved problem whereby transmission (output) will sometimes stop packetizing on certain IP Addresses with KONA IP running SMPTE ST 2110 firmware.
- PTP optimizations for KONA IP running SMPTE ST 2110 firmware.
- Fixed duplicate output from Channel #4 when outputting on Channel #3 with 2K/HD with KONA IP running SMPTE ST 2110 firmware.
- Solved corrupt frame at beginning of capture with AJA Io IP and DNxIP running SMPTE ST 2022 firmware.
- Fixed slight bounce in 1080 HFR image with KONA IP running SMPTE ST 2022 firmware.

Features, Fixes, Changes and Improvements in Prior Releases

v15.0.1

- Fixed item with Adobe Premiere Pro CC across numerous AJA devices, such that audio mute was not being respected when scrubbing, with some repeated audio being audible.
- Solved crashing with AJA Control Room when successively playing back clips of different frame rates from the bin.
- Fixed bad HDMI output from AJA Control Room with AJA Io 4K when playing back / passing through 4K at p25, p29.97, p30.
- Overcame issue with AJA KONA LHi, where RP 188 timecode was not capturable using AJA Control Room or 3rd party applications. Note however, this board does not support EE pass-through of RP188 LTC.
- Resolved 4K capture problem with AJA KONA 4, such that picture was scrambled in AJA Control Room due to problems with respecting "quad swap" feature.
- Achieved resolution to AJA Control Panel problem whereby saving a preset with Follow Input turned off then resulted in Follow Input being on when recalling the preset, and vice versa.
- Resolved issue with AJA Control Panel whereby LTC displayed on input widget doesn't increment/display hours and minutes. Note that the display in the Timecode tab did display correctly.
- Overcame AJA Io XT problem when receiving 10-bit RGB input via HDMI. AJA Control Panel input was erroneously showing as 8-bit and bad color resulted.
- Solved problem with AJA KONA LHi, KONA LHe Plus, whereby audio outputs / monitoring could become distorted. This seemed to be restricted to HP Z4 workstations, but may have surfaced in other systems too.
- Rectified issue with AJA KONA 4 and AJA Io 4K Plus, where HFR level B output had visual artifacts on right side of frame
- Rectified long wait times when updating AJA device firmware with AJA Control Panel. The updates would finish fine, but it could appear to a user as if the updating process had frozen.
- Solved problem where changing frame buffer was not setting up the inputs for 4K capture with AJA KONA IP running SMPTE 2110 firmware. Note this functionality is not on general release and is not currently supported outside of direct engagement with AJA Product Management.

v15.0

- Introduction of support for AJA KONA 5 (12G-SDI, 8-lane PCle Gen 3 video I/O card with HDMI 2.0 monitoring).
 - Note that AJA KONA 5 requires ATX power from the motherboard. Unlike other KONA cards, AJA KONA 5 does NOT use PCIe bus power.
- AJA KONA HDMI is now able to simultaneously ingest dual 4K 60p streams (vs. one 4K 60p plus one 4K 30p as in previous releases).
- For playback, AJA Control Room can now be used a fully independent media player, meaning video and audio assets can be played back without AJA hardware attached.
 - O Video will be played back on the host monitor within AJA Control Room, and audio can be monitored using the host system audio. Note however, AV sync cannot be guaranteed when using host system audio monitoring. To set the audio to host system:
- AJA Control Room: Preferences > General > Host Audio monitor > "Built-in Output".
 - o Note: You will also need to change your OS settings to use system audio (speakers / headphones) rather than AJA device
- For capture, AJA Control Room can now be set to enable audio monitoring via host system, audio. This is especially useful when ingesting material using a capture-only device such as KONA HDMI.

- Note however, AV sync cannot be guaranteed when using host system audio monitoring.
- o To set the audio to host system:
- o AJA Control Room: Preferences > General > Host Audio monitor > "Built-in Output".
- Note: You will also need to change your OS settings to use system audio (speakers / headphones) rather than AJA device.
- Solved problem with AJA to 4K Plus, with audio channels being mixed into other audio channels on playback.
- Fixed issue with AJA Io 4K Plus, where SDI pass-through crops top line of image on interlaced HDMI inputs.
- Rectified problem with AJA to 4K Plus, AJA KONA 4, where HDMI output of 4444 video (UHDp30 4444) shows blotchy areas.
- Rectified issue when using AJA Control Panel with AJA KONA 4, whereby 2K HFR Format Options not reading correctly.
- Fixed problem when using AJA Control Panel with AJA KONA 4, HDMI Out Selection of 4k Quarter not working.
- Fixed problem when using AJA KONA IP with ST 2022 firmware, such that intermittently an IP address can become stale and stop working until switching to a new IP address.
- Improved accuracy of Insert & Assemble Edit to Tape for certain VTRs when using AJA devices with Adobe Premiere Pro CC.
- Solved lack of audio monitoring during playback when using AJA devices with Avid Media Composer.
- Solved lack of timeline audio monitoring during audio punch-in when using AJA devices with Avid Media Composer.
- Solved issue with AJA MultiChannel Config when setting up Telestream Wirecast whereby setting 4K input caused AJA devices to get stuck in "OEM tasks" on Wirecast exit.
- Solved issue with Telestream Wirecast whereby progressive and interlaced signals could not be used simultaneously with AJA devices.

v.14.3

- Introduction of SMPTE 2110 support for AJA KONA IP (receive and transmit) up to HD/2K 60p.
- Added 6G-SDI as a valid I/O for using AJA Io 4K Plus with Telestream Wirecast (via AJA MultiChannel Config 4K settings). Note: Wirecast setup is done via AJA Multi-channel Config (not AJA Control Panel).
- Solved problem in AJA Control Panel when using AJA KONA HDMI, where inputs are incorrectly reporting incoming source as YUV 4:4:4 with numerous Canon cameras.
- Solved problem in AJA Control Panel when using AJA KONA HDMI, where swapping sources to different inputs can take up to 20 seconds for the signal to be detected from some Panasonic cameras.
- Solved problem in AJA Control Panel when using AJA KONA HDMI, where inputs 1 & 2 are incorrectly reporting incoming source as DVI (RGB 8 bit) from some Panasonic cameras.
- Solved problem in AJA Control Panel when using AJA KONA HDMI, where inputs 3 & 4 are incorrectly reporting incoming source as DVI (RGB 8 bit) from KONA 4 HDMI output.
- Solved problem in AJA Control Panel when using AJA KONA HDMI, where right clicking on the inputs within Control Panel brings up the window for the input options, but fails to switch to the desired input change.
- Solved problem in AJA Control Panel when using AJA KONA HDMI, where 4K/UHD playback will crash the application.
- Resolved issue in AJA Control Panel when using AJA KONA HDMI, lo 4K Plus or lo 4K, where HDMI sources from MacBook Prowere not locking successfully as inputs.
- Resolved issue in AJA Control Panel when using AJA KONA 1, where Follow Input is not functioning correctly when source format changes.
- Resolved issue in AJA Control Panel when using KONA IP, KONA 4, Io 4K, where Info tab reports bitfile as "bad bitfile type".
- Fixed issue with Telestream Wirecast when using KONA LHi and KONA LHe Plus, where AJA MultiChannel Config application wasn't allowing audio selections for output.
- Fixed issue with Telestream Wirecast when using Io 4K Plus, Io 4K, KONA 4, KONA IP, Io IP, Avid DNxIV and Avid Io IP, where incoming audio was always defaulting to input from SDI 1, regardless of setting chosen.
- Fixed issue with Telestream Wirecast where with no shot selected, incoming (pass-through) audio was present and could not be muted on outputs for Analog, Headphones, SDI monitoring and HDMI at application launch, when using AJA KONA or Io products.
- Fixed issue with Telestream Wirecast when using AJA KONA 4, where SDI 4 output is not functional.
- Fixed issue when using Adobe Premiere Pro CC with the capture window open, whereby application may crash when changing timeline format with AJA KONA or lo products.
- Fixed issue when using Adobe Premiere Pro CC, whereby frames are dropped upon playback of HFR material from either captured or imported sources with AJA KONA or lo products.
- Solved issue when using Avid Media Composer, whereby Snap forward then back would occur when starting play follow a scrub, with AJA KONA or Io products and / or Avid DNxIV, Avid DNxIP.
- Solved issue when using Avid Media Composer, whereby application would not launch if SDI inputs are connected to AJA KONA or lo products and / or Avid DNxIV, Avid DNxIP.

- Solved issue when using Avid Media Composer, whereby a corrupt frame was present at the start of capture with AJA Io 4K Plus, Io IP, Avid DNxIV, and Avid DNxIP.
- Improved performance when using either AJA Control Room or Avid Media Composer, whereby capture or playback was slow to start with Reference set to Video In, with AJA KONA or Io products.
- Solved problem when using Io XT, where Analog Audio output had phase shift at high frequencies.
- Solved problem when using Io XT (UFC firmware), where applying a secondary down-converted output was not possible.

14.2.1

- Introduction of Avid DNxIP support (new Avid Thunderbolt 3 device) supporting SMPTE 2022-6/7.
- Expanded analog audio configuration options for Avid DNxIV and Avid DNxIP.
 - o With AJA Control Panel, user can now select from four modes:
 - "8 in": eight-channel input across A1-8
 - "8 out": eight-channel output across A1-8
 - "4 in, 4 out": four-channel input across A1-4, four-channel output across A5-8
 - "4 out, 4 in": four-channel output across A1-4, four-channel input across A5-8
- Problems with 3G-SDI output are rectified for AJA KONA LHI and AJA KONA LHe Plus.
- Lack of audio when capturing Deep Color with HDMI ports 3 and 4 in AJA Control Room, is now resolved with AJA KONA HDMI.

v14.2

- Introduction of AJA KONA HDMI support (new AJA PCIe card).
- Introduction of AJA KONA 1 support (new AJA PCIe card).
- Introduction of AJA Io IP support (new AJA Thunderbolt 3 device).
- "Deep Buffer" setting in AJA Control Panel, improves handling of storage interruptions during ingest with AJA Control Room.
 - O User can now allocate RAM for caching to protect media being written during ingest:
 - AJA Control Room: Preferences > Capture > "Reserve buffer size for deep capture queues".
- Expanded analog audio configuration options for Io 4K Plus, Avid DNxIV, Io IP, Avid DNxIP.
 - o With AJA Control Panel, user can now select from four modes:
 - "8 in": eight-channel input across A1-8
 - "8 out": eight-channel output across A1-8
 - "4 in, 4 out": four-channel input across A1-4, four-channel output across A5-8
 - "4 out, 4 in": four-channel output across A1-4, four-channel input across A5-8
- "Disable creation of SCC/MCC files from Closed Caption data" option in Adobe Premiere Pro CC 2017 onwards, provides user with ability to prevent automatic generation of SCC/MCC Closed Caption files when capturing a signal with the data present:
 - Adobe Premiere Pro CC > Window > Capture > Settings > Edit > Settings > "Disable creation of SCC/MCC files from Closed Caption data".
 - Note that this option is not engaged by default. This is so older projects will remain unaffected.
 - Note that enabling this feature does not prevent the recorded media from encoding the Closed Caption data. If the data is present in the source signal, then it will be retained in the captured media.
- AJA Desktop Software firmware and software versions are tightly integrated. If back-revving to an earlier version for example, then you may be prompted to update your firmware to match; i.e. update to an earlier version of the firmware than you currently have installed. AJA Control Panel firmware update notification language has now changed to reflect this more accurately.
- Important updates have been added to the Known Issues and Limitations section near the end of this document. See items recommendations around Windows Sleep / Hibernation / Fast Boot.
- Fixed capture problem with Adobe Premiere Pro CC where when selecting RGBA for capture, instead resulted in a black clip being written to disk.
- Solved issue with Adobe Premiere Pro CC where auto-creating a sequence from an AJA clip (in a new project for the first time) could either take over 30 seconds, or else crash the application.
- Resolved bad SD video playback in Adobe Premiere Pro CC canvas and loss of AJA Video output, when choosing to display
 both fields
- Fixed issue with Adobe After Effects CC where taking an HD composition and setting it to an SD raster (with Match Sequence selected in the Transmit setting) resulted in AJA devices staying set to HD.
- AJA Control Room now provides a confirmation dialog if the application is quit or exited during capture.
- Amended incorrect interface reporting in AJA Control Panel whereby it appeared that input pass-through is checked, when actually in playback, and vice versa.

- AJA Control Panel Frame Buffer and Output are now correctly set to 525i 29.97 when presented with P2/MXF 480i 29.97 material that is flagged as 23.98.
- Fixed capture problem with AJA Control Room where entering capture mode caused excessive CPU usage.
- When Open GL acceleration is not being utilized, SD material no longer shows black at the bottom of the frame in AJA Control Room viewer during playback.
- Fixed issue whereby AJA T-TAP output image would shift horizontally.
- Amended behavior in Adobe Premiere Pro CC capture tool, such that it is no longer possible to attempt to capture from AJA T-TAP (being a monitoring-only device).
- Solved problem in AJA Control Panel, where clicking on the Timecode tab could cause the application to crash, with T-TAP.
- Corrected various HDMI display and capture problems caused when AJA device is connected to an already powered-up HDMI monitor, and then powered on, with AJA Io 4K Plus, Avid DNxIV.
- Fixed AJA Control Room crash upon physically connecting a signal to SDI 1, with Io 4K Plus, Avid DNxIV.
- Corrected banding on HDMI output when AJA Control Panel Frame buffer is set to YCbCr and HDMI color space is set to 10bit YUV, with Io 4K Plus, Avid DNxIV.
- Rectified problem whereby HDR would turn on, but not turn off completely, with AJA Io 4K Plus, Avid DNxIV.
- Remedied audible "tapping" effect during manipulation of volume knob, with AJA Io 4K Plus, Avid DNxIV.
- Solved problem with AJA Control Panel where when set to Quad (Square Division) SDI input, the HDMI output suffered from a green tint, and the HDMI widget reports incorrectly that it is passing 4K/UHD instead of a down convert to 2K/HD, with Io 4K.
 - o Corrected problem whereby Adobe Premiere playback of 2K formats would set the AJA Control Panel frame buffer to UltraHD, with Io 4K.
- Solved loss of HDMI output when using an RGB-10 (or ARGB-8 / RGB-12) framebuffer setting and attempting to set color space to 10-bit YCbCr / 4:2:0, with AJA Io 4k Plus, Avid DNxIV, AJA Io 4K, AJA KONA 4.
- Rectified AJA Control Room problem causing the wrong color space and image aberrations to display when using SDI RGB input, with AJA Io 4k Plus, Avid DNxIV, AJA Io 4K, AJA KONA 4.
- Fixed wrong output from AJA Control Panel. Upon selecting 2K, HD was instead output, and when selecting 4K, UltraHD was instead output, with AJA KONA LHi, AJA Io 4K, AJA Io XT.
- Solved problem where buffer format selections in AJA Control Panel intermittently provided incorrect output raster and corrupted imagery, with AJA Io Express, AJA KONA LHi.
- Solved problem where Adobe Premiere Pro CC captures would fail if Unicode characters were present in the Clip Name field of the capture window, with AJA KONA 4.
- Fixed audio quality problem when using Wirecast while running the UFC firmware available for AJA KONA 4.
- Fixed issue when using SMPTE 2022-6/7 firmware, whereby a receiving AJA KONA IP would not reestablish video streams following a manual disable and then re-enable of Video Output (in AJA Control Panel) on the transmitting AJA KONA IP.
- Solved transmit (playback) and receive (ingest) problems with 2K formats (up to 30p max) when using SMPTE 2022 firmware and JPEG 2000 firmware, with AJA KONA IP.
- Solved problem in AJA Control Panel where switching from 2K to SD formats could interrupt transmit (playback) when using SMPTE 2022-6/7 firmware, with AJA KONA IP.
- Fixed intermittent black frames showing across HDMI and SDI output with Downstream Keyer when using FrameBuffer over Video In, with either HDMI or SDI In selected as the source (and setting Match Frame Buffer format to Source), with AJA KONA LHi.
- Solved locking to input problem with Downstream Keyer when using FrameBuffer over Video In, with HDMI In selected as the source, with AJA KONA LHi.
- Fixed missing video output when using Wirecast with AJA KONA LHe Plus.

v14.0.2

- Added improved fan speed regulation for Io 4K Plus and Avid DNxIV.
- Removed gain-knob "zipper" sound on Mic Input for Avid DNxIV.

v14.0.1

- Added option for HDMI Audio Ch 3/4 Swap for Io 4K Plus and Avid DNxIV.
- Added option for SDI Input / Output Quad Swap for Io 4K Plus, Io 4K, KONA 4 and Avid DNxIV.
- Fixed general HDMI output timing and stability (of particular benefit for HDMI 1.4 monitors).
- Fixed HDMI output issues with Kona 4 on macOS.
- Fixed UltraHD HDMI output in 2SI.
- Fixed intermittent input detection when HDMI is input source.
- Fixed lack of Quarter Res output on SDI 3.

- Fixed Closed Captioning for SD output.
- Fixed input pass-through widget in Control Panel to show correct activity (HDMI down convert).
- Fixed issue whereby Control Panel reports device as both Io 4K Plus and DNxIV.
- Fixed Virus Check issue with AJA Multi Channel Config.
- Reinstated Python models within macOS and Windows installers.
- Fixed issue whereby Control Room would display an AV sync issue during capture (but capture OK).
- Fixed issue whereby Adobe Premiere Pro would display an AV sync issue during capture and resultant capture was out of sync.
- Fixed intermittent snapback at start of playback with Avid Media Composer.

v14.0

- Added Audio Mixer to AJA Control Panel.
- Fixed reverse playback of interlaced material (where fields were incorrectly swapped) within Adobe Premiere Pro CC.
- Fixed issue with cueing clips from the bin following an icon scrub, whereby a frozen frame manifested on playback on 1st attempt within Adobe Premiere Pro CC.
- Fixed jump in playback when video delay is set past zero within Adobe Premiere Pro CC.
- Fixed issue whereby Control Panel crashes if launched with no device connected.
- Added VTR on/offline icon to Batch Capture bin window in Control Room.
- Fixed issue whereby device offline dialog gets stuck in loop for batch captures when clicking "OK" in Control Room.
- Fixed bad timecode with playback of DPX Cineon header sequences in Control Room.
- Fixed 1 second lag for actual capture to begin, with DVCProHD 'on the fly' captures in Control Room.
- Fixed problem deleting a clip if loaded in the playback viewer in Control Room.
- Fixed problem with KONA LHi and KONA LHe Plus Analog inputs not detecting HD formats.
- Renamed the main AJA Desktop uninstaller in Program and Features.
- Fixed intermittent 720p varicam playback issues with T-TAP.
- When using Square Division with KONA 4, Io 4K, Io 4K Plus and Avid DNxIV, Quad link SDI sources are no longer viewable in UltraHD via HDMI, instead these sources will be down-converted for HD monitoring via HDMI.
 - o NOTE: This limitation does not apply to 2SI sources.
 - When using 2SI, Quad link SDI sources can be monitored in UltraHD via HDMI.
- It is no longer possible to decimate HFR material in order to facilitate HDMI playback on a monitor not capable of HFR when using KONA 4, Io 4K, Io 4K Plus.

v13.0

- Fixed video freeze occurring during loop playback in Adobe Premiere Pro CC.
- Fixed application freezes with installations of Adobe Premiere Pro CC utilizing NVidia graphic cards on Windows 7.
- Fixed bad video resulting from RGBA 8-bit capture in Adobe Premiere Pro CC.
- Enabled AJA plug in for Adobe After Effects to be installed, without Premiere Pro CC.
- Fixed a duplicate clip issue in AJA Control Room (when attempting to overwrite with new file).
- Fixed AJA Control Room GUI issues (Capture / Playback interface problematic with no input connected).
- Fixed AJA Control Room issue with missing edit In Point (shuttling engaged via frame stepping following "go to IN").
- Apple ProRes now recognized on imported clips in Control Room.
- Improved Thunderbolt™ plug and play performance.
- Fixed Timecode reporting for DF RP188 captures (DF was reported as NDF).
- Fixed Horizontal line in SDI 4 of io4k and Kona 4.
- Fixed UHD test patterns.
- Fixed ETT issues (where having a DVCProHD clip loaded caused video input distortion).
- Improved compatibility with AMD graphics cards.
- Fixed DVCProHD Routing issue (stuck in DVCProHD playback).
- Fixed issue with HDMI input producing bad video with AJA Io 4K.
- Fixed issue where selecting analog input as reference, causes HDMI input to instead become reference source on AJA KONA LHi.
- Improved Level B handling (on input to AJA device).

v12.5.1

- Fixed issue where Capture Settings in Premiere could cause a black screen on Windows 10 after certain updates.
- Fixed issue where 12-bit HDR Color Space setting was missing on Adobe Premiere 2017.

- Fixed issue where QuickTime files captured with 32-bit integer audio wouldn't play audio in some 3rd party apps.
- Removed 32-bit audio option from MXF to prevent incompatibility in Adobe Premiere.
- Fixed Genlock selection for Analog Input Video Source on KONA LHi.
- Fixed issue where quick use of JKL keyboard keys on Avid Media Composer could put audio into a loop.
- Fixed issue in AJA's Control Panel whereby AJA's Control Panel would crash following a click of the line in test pattern drop drown
- Fixed 2K 23.98 playback issues on T-TAP.
- Fixed issue with new Windows 10 installations where driver would not load.

v12.5.0

- Fixed issue where RP188 VITC shown when only RP188 LTC is present.
- Fixed issue when ANC TC on SDI 2 was not previously shown in AJA's Control Panel.
- Fixed issue with audio system crashes when switching from one application to another or from one plugin instance to another on macOS.
- Fixed issue with applications hanging when Io4K is hot unplugged.
- Fixed many improper VPID issues.
- Fixed issue with 4K/UHD 2SI input not being captured properly on KONA 4 and Io 4K.
- Fixed issue where Control Room captured clips are always non-drop TC.
- Fixed issue where firmware auto-update would not complete correctly on Windows.
- Changed all '425' strings in AJA Control Panel to read '2-SI' to denote 2 Sample Interleave method of transmitting 4K and UHD.
- Fixed issue with AJA output not working in Premiere Pro after changes in Adobe Playback Preferences.
- Fixed issue with capture in Premiere Pro where selection of Stereo Audio would create files with discrete mono tracks.
- Fixed issue where closing some applications caused HDMI audio output to always reset to 8 channels.
- Fixed issue where old video frame flashed on AJA output when switching from timeline to timeline, or from timeline to source monitor in Premiere Pro.
- Fixed issue with audio stutter on Wirecast output.
- Fixed issue with background noise created on live stream and recorded file in Wirecast.

v12.4.1

• Fixes issue which intermittently caused AJA driver not to read the AJA hardware serial number correctly.

v12.4.0

- Fixed issue where 8 bit YUV playback was bad in Premiere Pro when Mercury GPU is off.
- Fixed issue that caused video output to freeze in Premiere Pro when performing a trim function.
- Changed the way the audio hardware was being used.
- Fixed issue where AJA Control Panel does not hold onto a user preference for 1080p high frame rate 3G Level B. After a reboot, it always reset to Dual Link 1.5G.
- Fixed issue with audio only files in the Premiere Pro source monitor playing back with a stutter when AJA Transmit plugin is using minimum buffer mode.
- Fixed issue where legacy AJA After Effects Preview Plugin (Blithook) would not release the AJA hardware when trying to switch out of After Effects to another application.
- Changed the way Adobe After Effects is supported. Two different plugins were being installed before. The 'Blithook' plugin was the old legacy plugin and is no longer installed by default. It must be deliberately chosen as an option in both the macOS and Windows installer. The Transmit plugin is installed with the default installation options. Please see the Adobe Plugins manual for more information.
- Added NCLC color profiles to QuickTime file creation in Control Room.
- Added updated DNxHR codec to Control Room and Adobe Capture plugin which improved DNxHR capture performance.
- Fixed issue where AJA System Test failed when trying to test DMA speed on T-Tap.
- Fixed issue where DV and DVCProHD codecs didn't appear in Control Room and in Premiere Pro capture plugin when AJA hardware was in 25 or 50 fps modes.
- Fixed issue where 1080p50/59.94/60 projects in Media Composer would always switch AJA hardware into 3G SDI Level A Mode. Dual Link and Level B were not possible. Now, the user can choose this setting in AJA Control Panel before Launching Media Composer, and the setting will be honored.
- Fixed issues with controlled capture failing in Control Room.
- Fixed issue with AJA ASIO driver not working correctly in Premiere Pro on Windows.

- Changed DNxHD naming conventions in AJA Control Room to match the conventions in the DNxHR.
- Fixed issue where controlled capture in AJA Control Room always created a file with 16 tracks of audio.
- Fixed issue where 10-Bit HDMI Input to Io4K was being handled as 8-Bit.
- Fixed Capture in Premiere Pro using DV compression.
- Fixed issue with bad test pattern output from Io4K after host computer sleeps (firmware update).
- Fixed issue where capture of several DNxHD clips in AJA Control Room causes Control Room to crash.
- Fixed issue where Control Room on Windows would use 100% of all available cores when left to idle.
- Changed macOS and Windows installers to not install the legacy AJA After Effects Preview plugin by default. The plugin is still inside the installer, but must be selected by the user in a custom install. This older plugin should only be used in situations where performance of Transmit is not fast enough.
- Fixed issue in KONA 3G where RP-188 Timecode could not be read correctly from SDI Input 2 (firmware update).
- Fixed issue where controlled capture in Control Room appears that the out value changes after the capture begins. The out point is correctly executed, but the value appears cosmetically incorrect.
- Fixed issue where frames might be skipped at start of timeline playback from Media Composer.
- Fixed issue where first frame of playback after scrub might be incorrect frame in Media Composer.
- Fixed issue where looped playback in Media Composer could cause an exception error.
- Fixed issue where Video and Audio millisecond offsets in Premiere Pro Playback could cause video to skip a few frames at the beginning of timeline playback.
- Fixed cosmetic issue in AJA Control Room where VTR out point appeared to change after a controlled capture began.
- Fixed issue in KONA LHe+ where AES XLR could not be selected as the Audio Input source in the AJA Control Panel. Requires firmware update.
- Fixed issue on Io 4K where analog audio settings were not reflected correctly in AJA Control Panel.
- Fixed Frame accuracy during capture of 720p formats in Adobe Premiere Pro.
- Improved device control in Adobe Premiere Pro with fractional frame offsets in the device control plugin. Fractional frame offsets can be used to tweak capture and layoff offsets by less than one frame when edits and captures are out. intermittently. Please contact AJA support for more information.
- Fixed capture of RP-188 Timecode in Premiere Pro.
- Fixed issue with T-Tap and Io Express not holding the correct video format settings in Premiere Pro.
- Fixed issue with RGB HDMI input not working correctly in Io 4K.
- Fixed issue with AJA Control Room not inserting the first frame of audio during an insert edit.
- Fixed issue with AJA Import plugin for Adobe Photoshop where captures would have crushed levels.
- Fixed issue with VPID on 2-Sample Interleave formats being wrong.
- Fixed banding in Io4K and Kona 4 with HDMI output of 4K and UltraHD.
- Fixed issue in KONA 4 and Io4K where images get skewed if the downstream keyer is being used.
- Fixed issue where switching video formats can cause the picture to lock up in the wrong place vertically.
- Fixed Audio and Video offset settings in Premiere Pro Playback Settings.

Known Issues and Limitations

General

- 'System Sleep' should not be used with KONA and Io devices. All sleep and power efficiency modes should be disabled in the operating system settings.
- 'Hibernation' should not be used with KONA and Io devices. All hibernation modes should be disabled in the operating system settings.
- Windows 'Fast Boot' can cause device recognition difficulties (PCIe and Thunderbolt). To avoid problems, AJA highly recommended disabling Fast Boot.
- MXF OP-1A capture in both AJA Control Room and Adobe Premiere CC does not support the following formats: 720p60, 1080i30, 1080p30, 1080p60.
- KONA LHi has only one audio system and is limited to capturing or outputting one channel at a time with audio. In applications where multiple video inputs and outputs can be used at the same time, the SDI input will have audio and the HDMI input will not. Additionally, if both input and output are used simultaneously and independently (as opposed to output passed through from input) only one channel will have audio.

lo 4K

• With some monitors, HDMI output is cropped or scaled not showing outside border pattern. Workaround for now is to use the monitor's pan and scan settings.

KONA LHI

• When using level A 1080p50/59.94/60 YUV input to a RGB frame buffer for capture, the image is scrambled or non-working for various NLEs. In Adobe Premiere CC, this issue causes the app to become unresponsive when using an RGB10 frame buffer/capture codec. Note that Level B works correctly with all supported NLEs.

KONA HDMI

- Currently, some SD sources do not work correctly when using channels 1 and 2. Please use channels 3 and/or 4 for SD ingest.
- Currently, certain HDMI camera sources do not work correctly. Please contact support so AJA can investigate.

Wirecast

- When configuring a multi-channel card such as Io 4K or KONA 4, the inputs must be configured first (using AJA Multi-Channel Config application), if you plan to use the live program output feature. This will set the master clock for the card (either NTSC or PAL), otherwise the card will be set to 1080i-29.97 by default and could cause the card to attempt a mix of PAL and NTSC clocks. Be sure to configure all of your inputs and outputs in AJA Multi-Channel Config prior to launching Wirecast.
- Adobe Plug-Ins.
- Audio output from AJA devices can be compromised when sequence framerates do not match hardware framerates.
- This can occur when working in 720p formats other than 720p-50, 59.94, 60.
- To work around this limitation, go to Premiere Pro Playback preferences, and set the AJA video device to 'Match Control Panel'. Then set up a cross-conversion to output 1080 format. For example, if using a 720p-23.98 project, set the AJA Control Panel to cross-convert to 1080PsF-23.98, which is a valid SDI output.
- Timecode is not stored in crash captured clips when the timecode source is RS-422. If this is required, use embedded timecode instead of RS-422 timecode.
- Variable frame rates (VFR) with pull down added are not adjusted for timecode.
- 'Crash Capture' and 'Print to Video' will work on Varicam frame rates over HD-SDI, but 'Insert Edit', 'In/Out. Capture', and 'Batch Capture' will not.
- When insert editing on Panasonic decks, destructive edits may occur too early on the tape. In order to avoid this, be sure that menu item 202 "ID SEL" is set to "OTHER".
- Preroll shorter than 4 seconds is not recommended for use with any deck, for capture or layback.
- Premiere Pro defaults to 'Display First Field' in its monitor wing menus. If interlacing issues appear on the output of AJA hardware, try changing this setting to 'Display Both Fields'.
- When changing from a DF tape to an NDF tape on the same deck, with the Premiere Pro capture window open, the NDF/DF status may not be picked up correctly. If this happens, the timecode values seen in the Premiere Pro capture window may be incorrect.
- This Issue will NOT affect users unless they are changing between DF and NDF tapes on the same deck, in the same Premiere Pro Capture session.
- To Avoid This: Always give the new tape a new name in the 'Tape Name' dialog that appears when changing tapes and be sure to let the new tape spool up all the way before clicking the 'OK' button on the dialog.
- To Fix This: Close the Premiere Pro capture window and reopen it.
- When capturing from or exporting to a Panasonic D5 deck, the timecode source setting in the AJA Premiere Pro Device Control plug-in must be LTC+VITC.

Avid Open I/O Plug-ins

- For the AJA device to be selectable for audio-only capture in the Capture Tool, it must first be selected in the Capture Tool:
- Open the Capture Tool.
- Select both the Video Input and Audio Input as AJA KONA or AJA Io.
- Initiate your audio only capture.

- For the AJA device to be selectable in the Audio Punch-In Tool, it must first be selected in the Capture Tool:
- Open the Capture Tool.
- Select the Video Input as AJA KONA or AJA Io.
- Close the Capture Tool.
- Open the Audio Punch-In Tool.
- Select the Input Device as AJA KONA or AJA Io.
- Indefinite looping of the timeline with Open I/O plug-in installed may cause Avid applications to stop playback and give an error message.
- When capturing Dual-Link RGB sources using KONA 3 or KONA 3G, the E/E pass through signal may be incorrect on the Dual SDI output.
- The AJA hardware genlock may switch between 'Input' and 'Reference' when 'Reference' has been selected in the AJA Control Panel. Specifically, this is known to happen when attempting to batch capture in Media Composer, causing some clips in the batch to not be captured. To work around this issue, select 'Input' genlock in the AJA Control Panel when batch capturing.
- Occasionally analog video input will not be detected correctly in the Media Composer Capture Tool. As a workaround, play the source video when you start up Media Composer.

Legacy QuickTime Components

QuickTime components were removed from the AJA installers starting with v14.3 onwards. The intention is to make available
a stand-alone QuickTime components installer available for those who need it. At this moment in time the standalone legacy
QuickTime installer is non-functional and has been temporarily removed from the Archived Software area under product
support pages. Until the standalone legacy QuickTime installer is fixed and made available, please revert to AJA desktop
software v 14.2.1 or earlier.

Technical Support

AJA Technical Support is free and available to help you answer questions or resolve issues with any of your AJA products.

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