AJA KONA, Io and T-TAP™ Software Installer

Release Notes - macOS v14.0.2

Requirements and Recommendations

Operating System

This driver version is compatible with macOS 10.13.x (High Sierra), 10.12.x (Sierra), 10.11.x (El Capitan), 10.10 (Yosemite), and 10.9.5 (Mavericks). However, for demanding workflows using 4K/UltraHD and/or higher frames rates such as 60p, AJA recommends macOS 10.13.x (High Sierra) or 10.12.x (Sierra).

Software

The following software versions are compatible with this installer. Note that AJA recommends using the latest released versions for best performance:

Adobe
- Premiere Pro CC 2018, 2017, 2015
- After Effects CC 2018, 2017, 2015
- Photoshop CC 2018, 2017, 2015
- Prelude CC 2018, 2017, 2015
- Audition CC 2018, 2017, 2015

Apple
- FCPX – 10.4.1, 10.4, 10.3.2, 10.3.1, 10.3, 10.2.3

Avid
- Media Composer - 2018.x, 8.10, 8.9, 8.8, 8.7, 8.6, 8.5, 8.4

Telestream
- Wirecast 8.x, 7.x, 6.x

Other Compatible Applications*
- List of AJA Compatible Software

*Please contact the appropriate software vendor for information on AJA driver versions required for use in their application.

Fixes and Improvements in v14.0.2

AJA Io 4K Plus, Avid DNxIV

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

Deprecated Features in v14.0

Io 4K Plus, Io 4K, KONA 4 firmware

- When using Square Division only, Quad link SDI sources are no longer viewable in UltraHD via HDMI, instead these sources will be down-converted for HD monitoring via HDMI

  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.

Fixes and Improvements in prior releases

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
- Fixed Toggle P/PSF reactivity with Avid Media Composer (now instant)

v14.0

- Added Audio Mixer to AJA Control Panel
- Fixed issue whereby wake from sleep required FCPX restart
- Fixed reliability of Timecode out with FCPX
- Fixed issue whereby an application restart was required to recognize changes in HDR settings changed in AJA Control Panel when running FCPX
- Fixed Kernel Panic after Sleep > Wake > Launch FCPX cycle
- Fixed issue whereby "loclasscount for AudioStream" did not reset to zero upon Thunderbolt plug cycle with Apple FCPX
- 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 RP188 output from source viewer in Adobe Premiere Pro CC
- Fixed playback issue for 2Kp60 projects in Avid Media Composer
- Fixed severe frame dropping & A/V sync loss when playing AMA linked P2 AVC-I within Avid Media Composer
- Fixed issue whereby T-TAP leaves device in OEM mode on Wirecast exit
- Fixed issue whereby Control Panel crashes if launched with no device connected
- Fixed inoperable contextual menus on Mac within Control Panel
- 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 issues whereby Timecode for current position stops updating, when video option set to "no video" within 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
- Now possible to choose category dividers in compressor dropdown menu as compressors within Control Room
- Fixed failure to connect to AJA device after 2nd sleep with downstream Thunderbolt device attached
- Fixed issue whereby AJA thunderbolt device fails to be seen after sleep/wake cycle
- Fixed issue whereby ProRes 4k 4444 clips w/ alpha don't setup AJA device correctly
- Renamed the main AJA Desktop uninstaller in Program and Features
- Fixed intermittent 720p varicam playback issues with T-TAP

v13.0

- Fixed video freeze occurring during loop playback in Adobe Premiere Pro CC
- 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 memory leak when Capture windows left open in Adobe Premiere Pro CC
- Fixed issue whereby MXF files captured in Control Room, could not be linked to with Avid Media Composer (File>Import>Link to media)
- 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 AJA 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 Io 4k 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)
- Fixed conflict between AJA desktop software and Blackmagic Design software occurring when uninstalling AJA desktop software

v12.5.1

- Fixed Genlock selection for Analog Input Video Source on KONA LHi
- 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 VPID issues for Dual-Link connections on all KONA and Io devices
- Fixed issue whereby 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

v12.5.0

- Improved DNxHR performance on capture
- Improved Thunderbolt hotplug cycles behavior
- 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 where State of Genlock was not saved or recalled correctly in AJA's Control Panel Presets with Io XT
- Fixed issue where Ref/LTC would switch to Ref when selecting the Playback pane in AJA Control Room with Io XT
- Fixed Capture Now offset issues between video and timecode with 9 pin set as timecode source
- 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 with bad output after wake from sleep on macOS
- 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 with when Mercury GPU is off.
- Fixed issue where switching from AJA device to Adobe Desktop Audio in the Premiere Pro Playback preferences causes erratic behavior when the AJA device is selected as the System Audio device in macOS.
- Removed AJAUncompressedCodec.component from the AJA Driver installer on macOS.
- 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 that causes Premiere Pro to freeze and/or crash during capture on macOS 10.11
- 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 the 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

- 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 Io 4K after host computer sleeps (firmware update)
- Fixed issue where capture of several DNxHD clips in AJA Control Room causes Control Room to crash
- 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 R-188 Timecode in Premiere Pro
- Fixed issue with T-Tap and Io Express not holding their 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 Io 4K 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

Relevant Products

The following products are covered by this update:

Io 4K Plus   Avid DNxIV

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.
- 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.
- MXF OP-1A capture in both AJA Control Room and Adobe Premiere CC does not support the following formats :720p60, 1080i30, 1080p30, 1080p60

Wirecast

- When configuring a multi-channel card such as Io 4K or KONA 4, the inputs must be configured first 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 try and mix 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.

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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