

# AJA KONA, Io and T-TAP™ Software Installer

## Release Notes - Windows v12.3

## Requirements and Recommendations

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### Operating System

- This driver version is compatible with Windows 7, Windows 8.1 ( 64-bit) and Windows 10.
- Quicktime 7 must be installed.
- Before running this installer, uninstall all previous versions of AJA XENA 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 the links below:  
<http://www.aja.com/en/support/kona-pc-system-configuration/>  
<http://www.aja.com/en/support/kona-system-configuration/>

### Software

The following software versions are compatible with this installer:

#### Adobe

- Premiere Pro - CC 2014, CC 2015
- After Effects - CC 2014, CC 2015
- Photoshop - CC 2014, CC 2015
- Prelude - CC 2014, CC 2015
- SpeedGrade - CC 2014, CC 2015
- Audition - CC 2014, CC 2015

#### Avid

- Media Composer - 8.0, 8.1, 8.2, 8.3, 8.4

#### Telestream

- Wirecast - 5.x, 6.x

## New Features

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- KONA 4 and Io 4K have new Closed Captioning features
  - Supported in Premiere Pro and AJA Control Room
  - Closed Captioning Capture
    - QuickTime Capture
      - Adds captions to the caption track in the QuickTime file
      - Creates .scc and .mcc file
    - DPX Capture
      - Creates .scc and .mcc file

- Closed Captioning Playback
  - See PDF manuals for details
- Output support for Wirecast
  - Monitor output with Wirecast generated graphics overlays
  - Includes support for T-TAP
- New AJA System Test 2.0
  - Single, cross-platform application
  - Completely redesigned UI
  - Measure disk performance and PCIe performance
  - Adds new system report creation tool
- New Linux driver for use with Tweak and The Foundry software
- SMPTE 425 support for KONA 4 and Io 4K. Selections added to AJA Control Panel.
- Audio delay slider added to AJA Control Panel for KONA 4 and Io 4K
  - Delay audio on input or output up to 6 frames, in 1/10 frame increments
- 'Follow Input' mode for AJA Control Panel
  - Automatically changes the framebuffer to match the input signal
- Dropped Frame counter added for AJA Control Room
- AJA DPX capture plug-in for Adobe Premiere Pro now creates a separate directory for each capture instance
- 'Erase All Prefs' feature added to AJA Control Panel. This button erases all preferences for the driver and all AJA software and resets them to their defaults.

## Improvements

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- Fixed issue in Adobe Premiere Pro where audio stutters when sequence or source monitor framerate doesn't match the framebuffer framerate in AJA hardware.
  - Premiere>Preferences>Playback>Video Device>AJA Device>Settings>Buffer Mode must be set to 'Standard'
- Fixed issue on Io 4K where HDMI input intermittently doesn't work and requires a power cycle on the device to start working again.
- Fixed issue with DVCPROHD capture not selectable or not creating files correctly in AJA Control Room and AJA capture plug-in for Adobe Premiere Pro.
- Fixed issue where AJA Control Panel always showed dual-link SDI input graphics even when only single-link SDI was input.
- Fixed issue with 8-Bit YUV captures in AJA Control Room creating files that don't play correctly in QuickTime Player or FCP7
- Fixed issue with SD captures in AJA Control Room creating files that don't play correctly in QuickTime Player or FCP7
- Fixed issue with video output problems when using Sequence Trim mode in Adobe Premiere Pro CC 2015

- Fixed issue with bad audio when cross-converting from 1080i to 720p when using KONA 4 or Io 4K in AJA Control Room
- Fixed issue in AJA Control Panel where the downstream keyer could be turned on but then could not be turned back off
- Fixed issue with AJA Photoshop Export crashing on Windows 8
- Fixed issue with inability to genlock to input that doesn't match the framebuffer exactly. For example, 1080i25 could not be used to genlock 4Kp50 even though the clock rate should be identical.
- Fixed issue when trimming an HD sequence in Adobe Premiere Pro with a UHD-capable card will put the card into UHD mode
- Fixed issue with Io XT where HDMI input will not recognize more than 2 channels of audio
- Fixed issue with deck control accuracy in Adobe Premiere Pro being out by 1 frame on about 20% of captures and controlled edits.
- Fixed issue in Adobe Premiere Pro where batch captures initiated from the bin without the capture window open would fail.

## Relevant Products

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The following products are covered by this update:

KONA 4  
KONA 3G  
KONA LHi

KONA LHe Plus  
Io 4K  
Io Express

Io XT  
T-TAP™

## Known Issues and Limitations

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### Special Requirements for 4K/UltraHD Capture

Due to the high disk performance requirements with 4K and UltraHD, system configuration is very important.

AJA has tested and verified this configuration:

#### System Configuration

HP Z820 Dual CPU E5-2650 v2 - 2.6 GHz 6-core or better (Requires enough CPU speed to decompress ProRes in under 16ms)

- 32 GB RAM
- SATA Boot Drive with Windows 8.1
- Slot 1 – Empty
- Slot 2 – KONA 4
- Slot 3 – LSI 9721-8iCC RAID controller
- Slot 4 – LSI 9721-8iCC RAID controller

- Slot 5 – Empty
- Slot 6 – GPU

## RAID Configuration

Each RAID controller can be configured with either 4 x Intel S3700 200 GB+ or 6 x Intel S3500 240GB+ drives. RAID configuration per controller is:

- RAID 0
- 64k Stripe Size
- Always Write Back
- A RAID 0 configuration on each controller presents 2 drives to Windows, stripe the drives together with Disk Manager.

## General

- 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.
- 'System Sleep' should not be used with KONA and Io devices. Sleep modes should be disabled in the operating system settings.
- Io 4K and KONA 4 must be flashed with UFC firmware for use with thin raster formats such as DVCPProHD. DVCPProHD capture and playback is not possible with the factory-installed 4K firmware. In order to capture DVCPProHD with these devices, go to the AJA Control Panel 'Firmware' tab, and flash them with the supplied UFC bitfile. This bitfile contains all of AJA's up, down, cross-conversion support, as well as support for 'thin raster' formats like DVCPProHD, but does not include 4K and UltraHD support.
- 'System Sleep' should not be used with KONA and Io devices. Sleep modes should be disabled in the operating system settings.
- Io Express is not recommended for use in Windows with an Apple MacBook Pro 8.2 or earlier using Bootcamp. Io Express will work in an Apple Mac Pro tower, or in a MacBook Pro 8.3 with Windows and Bootcamp.

## 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 device 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.
- Millisecond delay controls will not function for video device in Premiere Pro version 8.x. When using version 8.x users can use the frame-based video delay in Playback>Preferences>AJA Device>Setup.
- 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 3 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.

## Technical Support

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

To contact AJA Technical Support:

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