

AJA KONA™ Software Installer

Release Notes - Linux (Ubuntu) v14.2

Requirements and Recommendations

Operating System

- This driver/software version is compatible with Ubuntu 14.04 LTS and Ubuntu 16.04 LTS.
- Before running this installer, uninstall all previous versions of AJA software:
 - `sudo apt-get purge ajantv2-dkms`
(also removes ajaretail since it depends on the ajantv2-dkms package)
- Two packages must be installed: DKMS driver and AJA Retail Software.
 - The DKMS Driver installer requires the following package:
 - `sudo apt-get install dkms`
 - The driver installer must run either in a root shell or with root permissions.
 - `sudo dpkg -i ajantv2-dkms_14.2-00_all.deb`
 - The AJA Retail software must run either in a root shell or with root permissions.
 - `sudo dpkg -i ajaretail_14.2-00_amd64.deb`
- For additional hardware recommendations and requirements, please see:
<http://www.aja.com/en/support/kona-pc-system-configuration/>

Software

The following software versions are recommended for use with this installer:
Control Room v14.2, Control Panel v14.2, System Test v14.2

For GPU accelerated desktop display, an Open CL version 1.2 or greater capable GPU is required.

New Features in v14.2

- Introduction of **AJA KONA 1** support (new AJA PCIe card)
- Introduction of **AJA KONA HDMI** support (new AJA PCIe card)
 - Includes support for V4L2:

Compile the AJA V4L2 driver components per desired platform (Ubuntu / CentOS)

Downloads and instructions here: <https://github.com/aja-video/ntv2-v4l2>

- “Deep Buffer” setting in AJA Control Panel, improves handling of storage interruptions during ingest with AJA Control Room.
 - 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”

- Note that this option is not engaged by default. This is so older projects will remain unaffected.

Fixes, Changes and Improvements in v14.2

Note

Items below are grouped by the main AJA products affected. Issues may have also affected other AJA products that are not specifically called out. As such, it may be worth reading all groupings if you are looking for a specific fix.

All KONA cards

- 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 relating to Sleep / Hibernation / Fast Boot.
- AJA Control Room now provides a confirmation dialog if the application is quit or exited during capture.
- Solved problem in AJA Control Room causing 720p TGA and BMP sequences to either not play back or else play back incorrectly (i.e. flipped or flopped).

KONA IP

- Fixed issue when using SMPTE 2022-6/7 firmware, whereby a receiving 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 KONA IP.
- Solved transmit (playback) and receive (ingest) problems with 2K formats (up to p30 max) when using SMPTE 2022 firmware and JPEG 2000 firmware.
- Solved problem in AJA Control Panel where switching from 2K to SD formats could interrupt transmit (playback) when using SMPTE 2022-6/7 firmware.

KONA LHi

- 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).
- Solved locking to input problem with Downstream Keyer when using FrameBuffer over Video In, with HDMI In selected as the source.
- Solved problem where buffer format selections in AJA Control Panel intermittently provided incorrect output raster and corrupted imagery.

Features, Fixes, Changes and Improvements in Prior Releases

v14.0.1

- General Linux Installation Optimization
- Added SDI Input Quad Swap feature to AJA Control Panel for KONA 4
 - When checked (default setting), changes the input Quad to SDI quadrant mapping from 1 to 1 to: Quad1 SDI3 Quad2 SDI4 Quad3 SDI1 Quad4 SDI2
- Added SDI Output Quad Swap to AJA Control Panel for KONA 4
 - When checked (default setting), changes the output Quad to SDI quadrant mapping from 1 to 1 to: Quad1 SDI3 Quad2 SDI4 Quad3 SDI1 Quad4 SDI2
- Fixed UltraHD HDMI output in 2SI
- 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)
- Reinstated Python models
- Fixed issue whereby Control Room would display an AV sync issue during capture (but capture OK)

v14.0

- Added Audio Mixer to AJA Control Panel
- Added VTR on/offline icon to Batch Capture bin window in AJA Control Room
- Fixed issue whereby device offline dialog gets stuck in loop for batch captures when clicking
- "OK" in AJA Control Room
- Fixed bad timecode with playback of DPX Cineon header sequences in AJA Control Room

- Fixed problem deleting a clip if loaded in the playback viewer in AJA Control Room
- Fixed problem with KONA LHi and KONA LHe Plus Analog inputs not detecting HD formats
- When using Square Division with KONA 4, 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 when using KONA 4

v13.0

- Initial full-release supporting Linux Ubuntu for KONA firmware, drivers and software including AJA Control Panel, AJA Control Room, AJA System Test and more.
- Added KONA IP SMPTE 2022-6/7 firmware
- Added KONA IP Optional firmware for TR-01 complaint JPEG 2000 workflows
- Capture, monitoring and output for DNxHD and DNxHR (mov) up to 4K 60p using AJA Control Room
- Application presets can be saved and recalled in AJA Control Room
- In cases where AJA Control Room won't launch, holding SHIFT during startup allows users to reset preferences or use software only mode
- Upon enabling scripting, the preference to "hold onto device in background" is automatically engaged in AJA Control Room
- 16- and 24-bit audio capture support in AJA Control Room
- Timecode burn-in for video playback and application player in AJA Control Room
- Closed caption burn in for video playback and application player in AJA Control Room
- VTR control in AJA Control Room
- Audio track re-routing now available for QuickTime file playback in AJA Control Room
- 4K / UltraHD down-convert to HD now available via SDI 3 output contextual menu – including new drop-down menus and ability to save presets in AJA Control Panel

Relevant Products

The following products are covered by this update:

KONA 4
 KONA HMDI
 KONA IP
 KONA 1
 KONA 3G
 KONA LHi
 KONA LHe Plus

Known Issues and Limitations

General

- 'System Sleep' and 'Hibernation' should not be used with KONA cards. 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.

Technical Support

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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