



Release Notes—Io HD version 1.0

General

If you are installing the AJA Io HD on a computer that previously had any other video capture cards and associated drivers installed, we recommend removing the drivers for these other devices to ensure proper operation of the Io HD. This includes the AJA KONA cards and standard definition Io products. AJA provides separate installers for all of our Desktop products. Drivers for these other AJA products cannot be used simultaneously on the same operating system as the Io HD driver; they are mutually exclusive. Like AJA, most companies provide uninstallers for their products. Please be sure to read any “ReadMeFirst” documents and refer to the Io HD manual on the installation CD, particularly if you are installing for the first time. Also be sure to check the AJA website for any software updates or product related information.

Installation Notes—Please Read

Version 1.0 of the Io HD driver is only for use with Final Cut Studio Version 2 (which includes Final Cut Pro 6 and later). Earlier Final Cut Pro versions are not supported by the Io HD driver. Also be aware that the Io HD is a FireWire device that needs the entire FireWire bus allocated to it. Other FireWire devices such as cameras, VTRs and disk drives should not be attached to the same bus and used at the same time as the Io HD. To use FireWire storage, a FireWire HBA (Host Bus Adapter) for desktop computers or a FireWire ExpressCard/34 adapter for laptops is required. Failure to follow this guideline related to FireWire devices can result in improper operation of the Io HD.

The Io HD was specifically designed to work with the Apple ProRes 422 and ProRes 422 HQ codecs via its internal hardware. Other HD codecs can only be used with the Io HD via software encoding/decoding. The Io HD can be used to capture to DVCProHD compression when used in combination with the MacPro series of Apple desktop computers; these computers provide sufficient processing power to software encode to DVCProHD compression in realtime. Uncompressed 10-bit 4:2:2 and Uncompressed 8-bit 4:2:2 QuickTime playback is only supported when using MacPro desktop computers along with the Io HD. An adequate disk array for uncompressed HD playback is also required.

Important Notes for Io HD version 1.0 Software

- The Io HD must be powered on prior to booting the computer. If the Io HD is powered up after the computer, the AJA Control Panel application will not be able to properly control the unit. If for any reason the Io HD is power cycled while the computer remains powered, the computer must be rebooted for proper operation of the Io HD.
- The Video In status indicator light on the front of IoHD may not be lit even if an active video input is selected. If this occurs, momentarily select another input and then reselect the desired video source.
- When the Io HD is first powered on, valid video output signal is not displayed. To activate valid video output, the Io HD Control Panel application should be opened and the desired video format selected in the Format tab.



- Intermittently you may find that the picture displayed in the Log and Capture window of Final Cut Pro is distorted. If this occurs, close the Log and Capture window, set the Genlock setting in the Control tab of the Control Panel application to Video In or to Ref In before re-opening Log and Capture. For Ref In, be sure that an appropriate reference source is used for the footage to be captured. During playback of footage, the Genlock setting should be set to either Freerun or Ref In, not Video In.
- DVCProHD formats will appear in their native pixel aspect ratio (anamorphic appearance) in the Log and Capture window of Final Cut Pro. Video output while using Log and Capture will appear at the standard pixel aspect ratio. Captured footage will have the appropriate values and display as expected within the Final Cut Pro Viewer and Canvas.
- For some Easy Setups provided for the IoHD, Final Cut Pro may produce a warning prompt which reads: "For best performance your sequence and External Video should be set to the same format of the clips you are editing. Change sequence settings to match the clip settings?" This can happen even if the clip and sequence settings do match since some formats other than Apple ProRes 422 (such as DVCProHD) use an Apple ProRes 422 setting for video output.
- Some selections appear as valid choices in the Format Tab of the Control Panel application when they are not supported. If 525i 29.97 is selected as the Primary Format, 1080sf 23.98 can be selected as a Secondary Format. This will actually produce a 1080i 29.97 output, not a 1080sf 23.98 output. For Input Passthrough mode in the Control Panel application, 1080sf 23.98 may be selected as the Primary Format and 525i 29.97 as the Secondary Format. This selection does not produce a valid video output. 1080sf 23.98 can be downconverted using the Control Panel application, but not for Input Passthrough mode.
- Apple's Final Cut Pro application does not yet support capture of timecode via RP-188 or LTC. Only the included AJA VTR Xchange application currently supports RP-188 capture. LTC timecode support is not yet offered in the VTR Xchange application.
- Support for Apple's Color application is limited to SD video output with the version 1.0 software release.
- Io HD preference files retain the use of the AJA "Kona" name in their title. A future release will remove "Kona" from the AJA preference titles.
- Io HD software release version 1.0 supports the following formats:

525i 29.97	625i 25
720p 50*	720p 59.94
720p 60	1080i 25
1080i 29.97	1080i 30
1080sf 23.98	1080sf 24

**720P 50 is not yet supported by Final Cut Pro - 50Hz 720P 25 support is offered.*



Io HD System Requirements

Note

The installer will run a system requirements check before installing. If your system does not meet the minimum requirements listed below, the AJA Io HD software will not be installed.

Hardware requirements

- MacPro 2.66GHz “4 core” (MA356LL/A) or 2.0GHz or 3.0GHz “build-to-order”, 2GB or more system RAM
- MacPro 2.66Ghz “8 core” (MA356LL/A) or 2.0GHz or 3.0GHz “build-to-order”, 2GB or more system RAM
- MacBook Pro (2.33GHz Core 2 Duo minimum), 2GB or more of system RAM, ExpressCard/34 FireWire 800 card or ExpressCard/34 SATA Controller.
- Power Mac G5 Quad 2.5GHz (M9592LL/A), 2GB or more system RAM

Note: unlisted Macintosh G5 configurations may not provide the full functionality or features that the Io HD in combination with the listed configurations (in this table) can provide.

Not all CPUs provide sufficient processing for native DVCProHD playback. If dropped frames occur when attempting playback of DVCProHD material when using a particular CPU, users can place the DVCProHD material on a timeline with the Apple ProRes 422 sequence settings. Additionally, if Dynamic RT reports dropped frames during playback of DVCProHD material from the Apple ProRes 422 timeline, rendering the sequence may also be required for realtime playback.

- Intel XServe Quad 2.0Ghz (MA409LL/A), 2GB or more of system RAM

Software requirements

- Mac OS X v10.4.9 or later
- QuickTime 7.1.6 or later
- Final Cut Studio 2

Before you install

Make sure you do the following before you install the software:

- Turn off any virus protection and security software that you may have installed on your computer.
- Upgrade to Mac OS X v10.4.9 or later and QuickTime 7.1.6 or later.

Storage Requirements

Ensure that you have an adequate storage system to match the sustained transfer speeds necessary for the workflow you will be using on your Mac and Io HD. Please read *Chapter 1, System Requirements* in the Io HD manual provided on CD for more information on this topic.

