

Using AJA *KiPRO* with Avid NLEs

"Opening up the Avid workflow to read native ProRes QuickTime files directly through the Ki Pro gives our customers access to new ways of working that increase productivity and reduce costs..."

AJA Ki Pro is a great option for new workflows and empowers our customers to have more flexibility across their project pipelines."

David Colantuoni, senior product manager, Avid.



AJA and AVID Background

At NAB 2010, AJA announced that the Apple ProRes 422 files recorded in the field to the award winning Ki Pro are directly compatible with Avid® Media Composer® and Symphony™ systems via the Avid Media Access (AMA) architecture.

This means that Avid users have the same simple workflow available to them as users of Apple Final Cut Pro:

A direct lens to post workflow at 10-bit full quality raster for seamless editing.

AJA and Avid have long collaborated on solutions for Post Production, with Avid utilizing AJA OEM cards in their DS finishing systems and Avid MC 5.5 editing with Io Express.

If you have watched television shows like Fox's "House M.D.", you have seen AJA's cards in action with AJA hardware support.

Now, Avid editors can gain the added advantage of utilizing files captured directly from camera to the Ki Pro or Ki Pro Mini.

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AJA's Ki Pro simplifies Acquisition

The AJA Ki Pro is a portable, rugged, tapeless video recording device that records high-quality Apple ProRes 422 QuickTime files onto computer-friendly media. It connects production directly with post by enabling filmmakers, broadcasters, video professionals and prosumers to skip the process of re-rendering to an editing-friendly codec by providing immediate access to full raster edit-ready files directly from camera.

Ki Pro and Avid AMA (Avid Media Access) opens the doors

Through its AMA plug-in architecture, Avid enables users to connect the AJA Ki Pro media seamlessly to Mac-based Media Composer and Symphony systems to view, edit and play back Apple ProRes 422 QuickTime files with access to all clip metadata. On PC systems, the addition of software like [MacDrive](#) enables Windows to similarly recognize HFS formatted drives.

With Ki Pro compatibility, Avid Media Composer and Symphony customers will be able to:

- Record hours of pristine Apple ProRes 422 QuickTime media to a removable storage module with built-in FireWire800 for immediate editing and file access on Mac OS X.
- Record natively to Apple ProRes 422 (Proxy), ProRes 422 (LT) ProRes 422 and ProRes 422 HQ, for full raster 10-bit 4:2:2 HD and SD.
- Connect any digital camera via SDI or HDMI, or any analog camera with component input options.
- Convert in real time from SD to HD, or 720 to/from 1080, in full 10-bit quality.
- Drive multiple display devices on-set via Ki Pro's "always-on" multiple digital and analog outputs.
- Use built-in wireless 802.11 and Ethernet for complete control via a web-browser or iPhone.
- Leverage 8-channel embedded SDI audio, gang recording with multiple Ki Pro devices via web-based UI and in a future firmware upgrade for Avid users, RS-422 device control.

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AJA's Ki Pro Mini simplifies workflow in a Flash

AJA's Ki Pro Mini was designed as a miniature field recorder for creating "ready- to-edit" professional digital video.

Ki Pro Mini supports a "file-based" workflow by recording standard Apple ProRes 422 QuickTime files on industry standard Compact Flash (CF) media. When removed, Compact Flash cards function as standard HFS drives when connected to a Mac computer via any standard off the shelf Compact Flash reader or to a Windows PC with [MacDrive](#) installed.

Ki Pro Mini's multi-purpose mechanical design and small form factor allow flexibility in mounting to the camera or tripod using industry standard mounting plates or shoe adapters. An optional Ki Pro Mini mounting plate offers a wide variety of bolt patterns for mating either side of the unit with virtually any camera accessory bracket.

Like AJA's famous Ki Pro, KONA and Io HD desktop products, Ki Pro Mini offers unparalleled I/O quality. Within its portable and rugged form factor, Ki Pro Mini offers broadcast quality SD/HD digital I/O including SDI, HD-SDI and HDMI, two channels of balanced analog audio input (2 XLRs) with switch selectable line/mic levels, and LTC timecode input.

For Editors, an optional Tabletop Ki Pro Mini Stand and Adapter Cable securely holds the Ki Pro Mini upright on a desk, shelf, or any flat surface. A right angle power cable is provided for easy connection between the power supply and the Ki Pro Mini.

All the advantages of the Ki Pro Mini's recording to HFS formatted CF cards and Avid's AMA support, once again means no digitizing time for Avid editors.

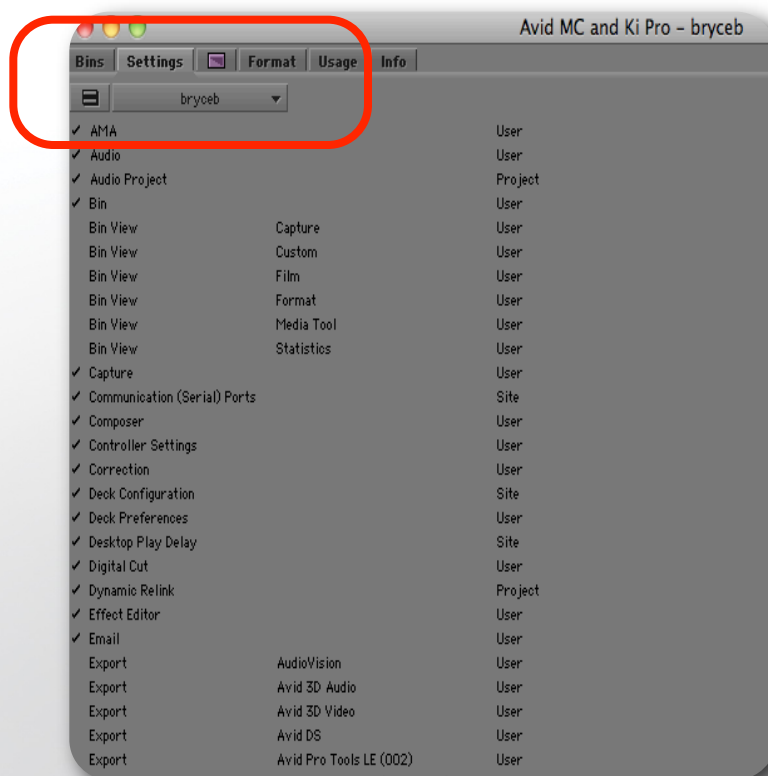


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Using Ki Pro storage modules with AMA

AMA Is ON by Default

The new versions of Avid editing software ship with Avid Media Access (AMA) turned on. This means you have access to the new AMA features automatically.

When AMA is turned on, the system automatically recognizes your removable media devices.

Every time you connect a storage device to your Avid editing system, it is scanned to see if it contains media (at the root directory of the device) supported by one of these plug-ins, including Apple Pro Res files from a Ki Pro Storage Module. If it does, and if AMA is active and your settings allow it, a new bin is created automatically and the bin populates with clips that link to the original high resolution media on your media device.

You can view, edit and consolidate immediately.

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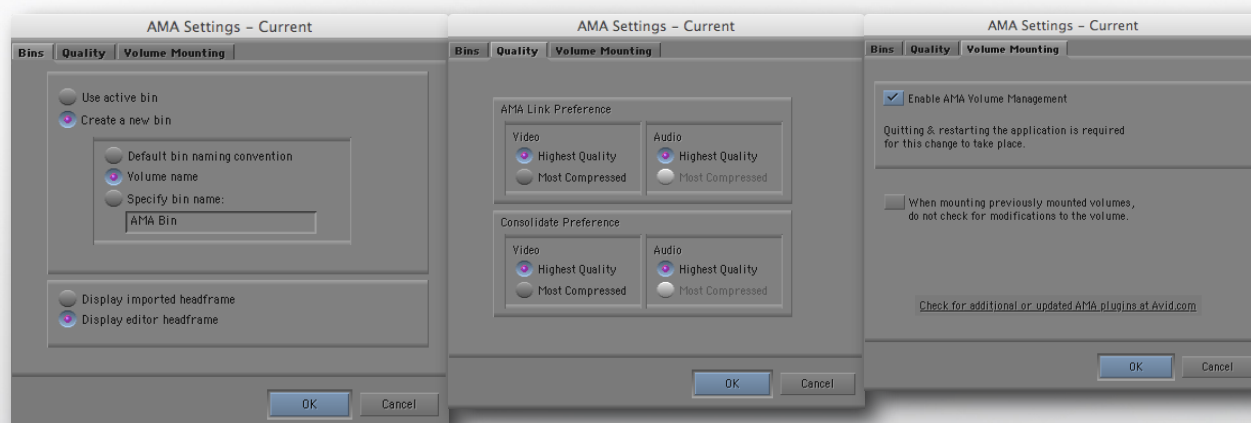
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AMA Settings

If you need to adjust the AMA settings, you can click on the Settings tab within your Avid software and configure from there.

The AMA setting, has 3 distinct tabs.

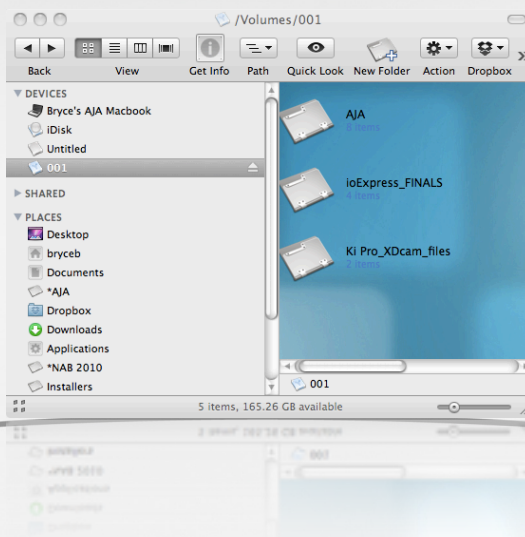
Bins. Quality. Volume Mounting.



Attach your Ki Pro Storage Module to your Computer via FireWire 800

Your Ki Pro storage module is automatically recognized by the Mac OS since it is formatted as an HFS+ drive.

If you are on a PC, you will need to have MacDrive installed to recognize the filesystem.



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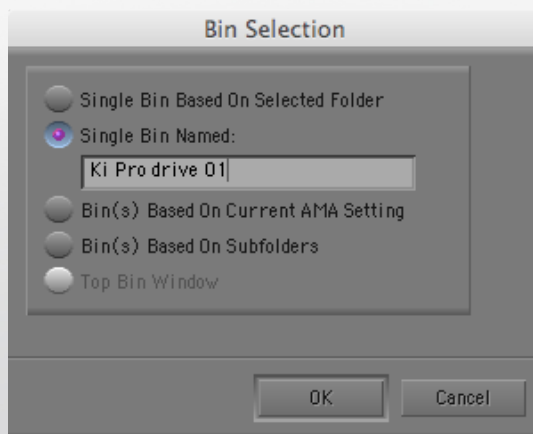


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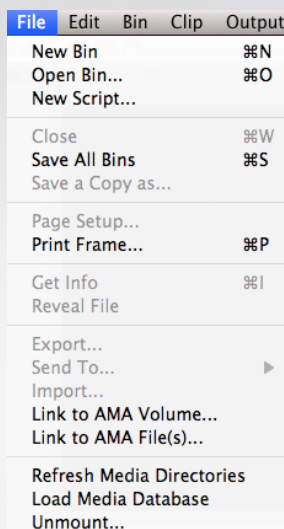
Name your Bin after your Ki Pro Storage Module

It is a good idea to have set the AMA Bin settings to a name that corresponds to your drive name, for instance "Ki Pro Drive 01" so that you can distinguish between Ki Pro Storage Modules and any other drives you might be using.



If your system had previously been set in the Volume Management tab not to automatically recognize AMA volumes or for some other reason it does not automatically see the Ki Pro Storage Module within the Avid software, navigate to the File Menu and choose:

Link to AMA Volume...



File menu in Avid MC 5.5

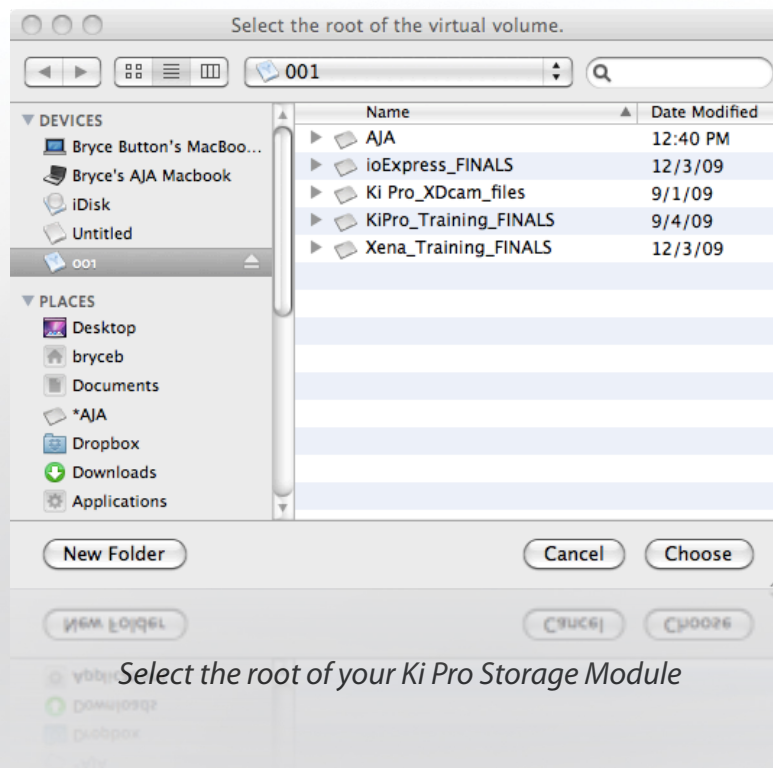
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Once you have chosen this option, the Avid software will ask you to navigate to the root of the drive. Do so and select *choose*.



Ki Pro AMA Bin

Name	Creation Date	Duration	Drive	IN-OUT	Mark IN
ioExpress_FINAL_720	5/17/10 12:45:01 PM	2:08:22	001		
Final_IO-AJA_360	5/17/10 12:45:01 PM	2:08:22	001		
Final_IO-AJA_1080	5/17/10 12:45:00 PM	2:08:22	001		
Xena_Training_FINALS	5/17/10 12:45:00 PM	2:24:19	001		
Xena_Training_INTRO	5/17/10 12:45:00 PM	3:12:15	001		
Xena_Training_FINAL	5/17/10 12:44:59 PM	10:05:07	001		
Xena_Training_ADOBE	5/17/10 12:44:59 PM	4:33:10	001		
SCSTK2	5/17/10 12:44:59 PM	8:17	001		
SCSTK1	5/17/10 12:44:59 PM	13:21	001		
SC IATK1	5/17/10 12:44:59 PM	6:10	001		
Final_IO	5/17/10 12:44:59 PM	2:08:22	001		

Clips highlight in Yellow to indicate AMA status of Media

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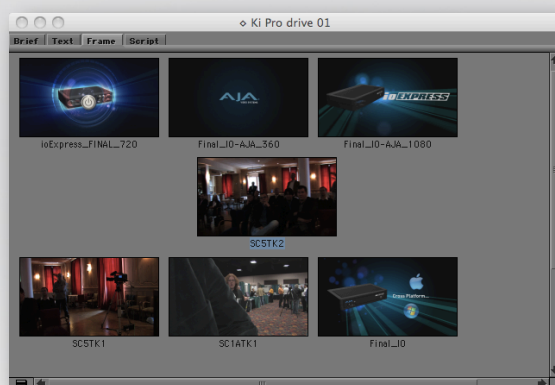
Once you have chosen the Ki Pro storage module, the Avid software will automatically create a bin based upon the AMA Bin settings name and the bin will populate with all Quicktime files on the Ki Pro storage module.

In the example above, there are clips that were shot to the Ki Pro directly from the camera that automatically stored in a folder called "AJA" on the storage module, as well as h.264 files that were transferred to the storage module from a laptop.

This is an advantage of the Ki Pro Storage Module's HFS+ formatting; it appears like any other FireWire drive to a computer.

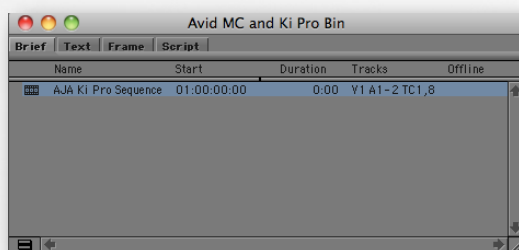
Frame view in Avid Bins

To quickly confirm that you have the shots you are expecting in your bin, select the Frame tab and the Avid software will display an icon for each shot.



Edit Away!

It really is this simple, just create your sequence and edit away!



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In our example here, we have added a Title and a burn-in TC window and the sequence plays in RT with out stuttering on a 15" MacBook Pro.



Ki Pro media playing from Ki Pro Storage Module with RT effects

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Virtual Volumes

AMA also supports the concept of a "virtual volume." A virtual volume is a copy of your Ki Pro Storage Module stored in a directory on a hard drive. If you have a virtual volume, you can have Avid Media Access (AMA) recognize that copy of your media as if it were the original Ki Pro Storage Module. You will be able to access this media, edit with it and perform any other functions with the media that you are able to do with the Ki Pro Storage Module.

This can be a great help if you are circulating Ki Pro Storage Modules on set.

AJA and AVID are your creative Partners

AJA is proud to be your partner in your creative endeavors. This partnership between AJA and Avid, offers all Avid editors the opportunity to move as efficiently from Lens to Completion as possible.

As soon as a firmware upgrade arrives, you will be able to master out to the Ki Pro with RS-422 support as well for instant creation of Apple ProRes files from your Avid timeline.

If you send out RP-188 timecode or LTC timecode that matches your edit, you can perform a frame-accurate crash record today.

To learn more about AJA's revolutionary Ki Pro and Ki Pro Mini products visit:

<http://www.aja.com/products/kipro/ki-pro/ki-pro-description.php>

<http://www.aja.com/products/kipro/ki-pro-mini/ki-pro-mini-description.php>



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