## Using AJA **Millin** 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...

Media 5

Avid MC 5.0

A JA KI Pro On Set: Create Your Ideas

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.



LA

### 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<sup>®</sup> Media Composer<sup>®</sup> and Symphony<sup>™</sup> 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.



### Using AJA **H**I

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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 rerendering 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 <u>MacDrive</u> 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 webbased UI and in a future firmware upgrade for Avid users, RS-422 device control.



## Using AJA **H**I

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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 <u>MacDrive</u> 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.





### Using AJA **K**i (2):10 with Avid NLEs

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### What is AMA ?

AMA (Avid Media Access) is a plug-in architecture that greatly accelerates your tapeless video workflows, including RED, QuickTime and others. With AMA, you can simply connect a supported card/disc or device and begin viewing and cutting footage right away<sup>\*</sup> — no need to transcode media or use other software to view or extract the clips.

You get native, direct access to file-based video without moving, importing, or transcoding media. This allows you to instantly view, edit, and play back your Apple ProRes files\*\* directly from your Ki Pro Storage Module or CF card if you choose, with access to all clip metadata.

A further benefit is the support of multiple media formats together in the timeline without converting clips, so you can use your Ki Pro media alongside your DNX library footage.

### **Under the Hood**

AMA works behind the scenes, automatically linking clips from the device to a bin in your software. You get immediate and direct access to all AMA media just as you would when working with clips stored in the Avid Media Files folder.

What's more, AMA Virtual Volumes work with any hard drive full of supported files too; just connect the drive, choose File > Link to AMA Volume, select the desired content, and the media pops up in a bin, ready to view and edit. AMA media functions like other video clips too. Need to consolidate all of your media? Just use the Consolidate command to offload footage and put your Ki Pro Storage Module back in use.

\* Playback speed and the complexity of edits and effects possible may be limited by the inherent bandwidth restrictions of the disc/ card. Moving material to higher speed storage as an AMA Virtual Volume will resolve this issue and free up the original media for further recordings.

\*\* Please note that QuickTime files only work with Media Composer 5, Symphony 5, and NewsCutter 9 and above software.

http://www.avid.com/US/solutions/workflow/Avid-Media-Access



## Using AJA **K**i (2):17 with Avid NLEs

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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.



## Using AJA **Ki**

#### 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.

**Bins. Quality. Volume Mounting.** 

The AMA setting, has 3 distinct tabs.

AMA Settings – Current	AMA Settings – Current	AMA Settings - Current
ns Quality Volume Mounting	Bins Quality Volume Mounting	Bins Quality Volume Mounting
Use active bin Use a new bin Default bin naming convention Volume name Specify bin name: APIA Bin	AMA Link Preference Video Highest Quality Most Compressed Consolidate Preference	Enable AMA Volume Management     Quitting & restarting the application is required     for this change to take place.     When mounting previously mounted volumes,     do not check for modifications to the volume.
<ul> <li>Display imported headframe</li> <li>Display editor headframe</li> </ul>	Video Video Video Highest Quality Most Compressed Host Compressed	Check for additional or updated AMA plugins at Avid.com
OK		ncel

### 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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## Using AJA **Ki**

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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.

Bin Selection
<ul> <li>Single Bin Based On Selected Folder</li> <li>Single Bin Named:</li> <li>Ki Pro drive O1</li> </ul>
<ul> <li>Bin(s) Based On Current AMA Setting</li> <li>Bin(s) Based On Subfolders</li> <li>Top Bin Window</li> </ul>
OK Cancel

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...

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File menu in Avid MC 5.5



# Using AJA **Ki**

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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*.

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<ul> <li>DEVICES</li> <li>Bryce Button's MacBoo</li> <li>Bryce's AJA Macbook</li> <li>iDisk</li> <li>Untitled</li> <li>oo1</li> <li>PLACES</li> <li>Desktop</li> <li>bryceb</li> <li>Documents</li> <li>*AJA</li> <li>Dropbox</li> <li>Downloads</li> <li>Applications</li> </ul>	Name AJA ioExpress_FINALS Ki Pro_XDcam_files KiPro_Training_FINALS Xena_Training_FINALS	
New Folder		Cancel Choose
New Folder		ancel Choose
Select the re	oot of your Ki Pro Stora	ge Module
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Clips highlight in Yellow to indicate AMA status of Media

Xena\_Tr Xena\_Tr Xena\_Tr SC5TK2 SC5TK1 SC5TK1 SC1ATK



Because it matters

**Ki Pro AMA Bin** 

### Using AJA **H**I

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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.

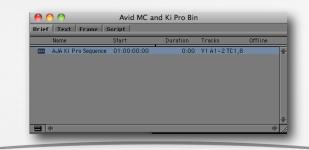
### Frame view in Avid Bins

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!





# Using AJA **Mi**

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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.

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



## Using AJA **K**i (2):17 with Avid NLEs

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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 frameaccurate crash record today.

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

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



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