

Prepping files for use on Ki Pro

4/2011

General Recommendations for Success

Files can be easily be prepared for playback off of a Ki Pro or Ki Pro Mini for many uses. It's a simple process, but it is essential to ensure that you have a few details covered for success.

Final files need to be created as a single rendered QT file that can be transferred via Firewire 800 or a CF card reader to the Ki Pro Storage module or CF card and placed in the AJA folder on the media. *(Note: Files outside of this folder are not recognized for playback.)*

The file needs to meet a combination of the codec, frame rate, frame size and audio specifics below.

CODEC:

Apple ProRes 422, Apple ProRes 422 (HQ), Apple ProRes 422 (LT), or Apple ProRes 422 (Proxy)

FRAME RATES:

- Any of the supported frame rates of your current Ki Pro Firmware. Please see AJA's website for latest manuals and release notes. *(Check to see what rates your display or projector handles as well.)*

FRAME SIZES:

- NTSC 720 x 486 (note: must be full 601 size 720 x 486, NOT 720 x 480).
- PAL: 720 x 576
- HD: 1920 x 1080, 1280 x 720

AUDIO:

General: As part of the QuickTime file, audio must be PCM uncompressed 48 kHz 24-bit (NOT 16-bit).

Because it matters



Prepping files for use on Ki Pro

4/2011

Detailed Steps for Appropriate File Creation

- 1) The video transferred to the Ki Pro or Ki Pro Mini needs to be a full-raster Apple ProRes 422 (Proxy), Apple ProRes 422 (LT), Apple ProRes 422 or Apple ProRes 422 (HQ) QuickTime Movie file with a format and frame rate supported by the device.

(You can refer to the Ki Pro Mini Operation Manual v2.5 for details on the latest supported formats in the Appendix)

- 2) You will need to export a QuickTime Movie from a computer with Final Cut Pro installed. If you have Final Cut Pro installed, using Final Cut Pro to export the file will likely be the easiest solution, but you could also elect to export a QuickTime Movie from applications like Compressor or QuickTime Player Pro, etc. as long as Final Cut Pro is installed and the appropriate settings in the application can be made.

- 3) If you are working in Final Cut Pro with an **Apple ProRes sequence**, you should take note to review the **Final Cut Pro Sequence Settings**, and within the **General tab**, the **Audio Settings** should be configured for:

Rate: 48 kHz

Depth: 24-bit

Config: Channel Grouped

(Apple-provided Apple ProRes Sequence Settings may default to 16-bit audio and the Ki Pro and Ki Pro Mini only accept 48kHz 24-bit audio, not 16-bit)

- 4) If you are working from an Apple ProRes sequence and the settings noted above, select the Sequence in Final Cut Pro with the in to out points, and then **select File>Export>QuickTime Movie.**

Because it matters



Prepping files for use on Ki Pro

4/2011

5) The Save prompt will appear and it should be noted that the **default** is for the Setting selection to be Current Settings, Include Audio and Video and Make Movie Self-Contained with the checkbox selected. If you were not already working with an Apple ProRes sequence, you will need to adjust the settings accordingly as noted above. Select OK to save the file.

5) To be visible to the AJA Ki Pro, **an Apple ProRes 422 QuickTime file needs to be placed within the Ki Pro folder named "AJA."** If the file is placed outside of this folder, it can live on the media, but the Ki Pro or Ki Pro Mini will not list it for playback when you place the media back in the device.

You might find this alternate method valuable for **sequences that were not created using an Apple ProRes Sequence Setting:**

1) Select the appropriate Sequence with in to out points, and then select **File>Export>Using QuickTime Conversion.**

2) When the prompt appears, the **QuickTime Movie should be selected for Format.** Click on the **Option button to configure.** For the **Video portion, select Settings...**

3) Choose the appropriate Compression Type - Apple ProRes 422 (Proxy), Apple ProRes 422 (LT), Apple ProRes 422 or Apple ProRes 422 (HQ).

4) In the Motion area, set the frame rate to what is appropriate for your movie, such as 29.97 fps.

5) In the **Compressor, if the material is interlaced (such as 1080i or SD), select the Interlaced checkbox.** If you are in a 60Hz region, HD interlaced material will be Top field first for the pulldown selection and SD interlaced material will be Bottom field first.

Because it matters



Prepping files for use on Ki Pro

4/2011

(In a 50Hz region, SD will also be Top field first) You can select OK for this section and move on to Size... from the Video settings.

6) **Size** is determined by your Sequence material and the Size selections provide pre-determined selections for NTSC, PAL and HD raster sizes within the list. Select the one that is appropriate for your material. You can select OK and move on to Sound settings.

7) **Sound Settings** should be as follows:

Format: Linear PCM

Channels: Stereo (L R) or 2 Discrete Channels (either is acceptable)

Rate: 48.000 kHz

Render Settings: Best

Linear PCM Settings, Sample size: 24 bits, Little Endian checkbox selected.

Once these selections are made, hit OK.

8) Hit OK once again in the Movie Settings prompt. You should be returned to the Save window. Save to the desired location. Again, remember that to be visible to the AJA Ki Pro, an Apple ProRes 422 QuickTime file needs to be placed in the Ki Pro folder named "AJA."

Because it matters



Prepping files for use on Ki Pro

4/2011

Appendix

DOLBY audio needs:

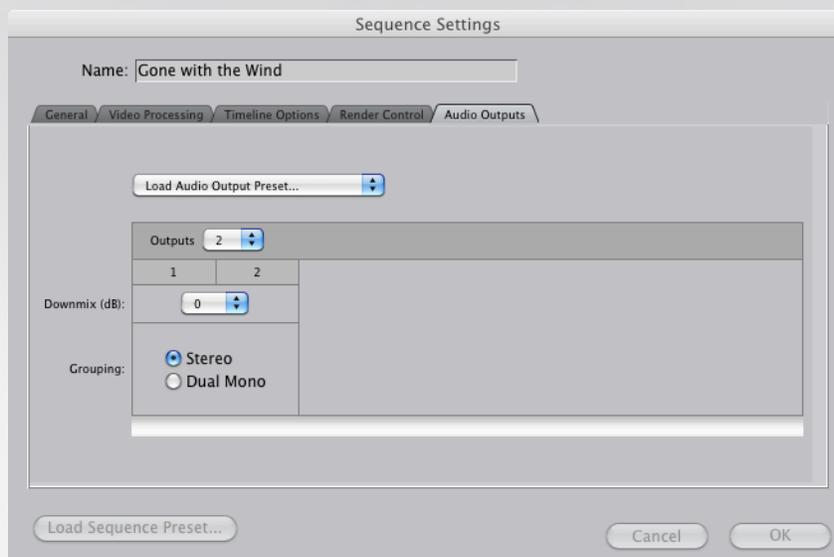
For projection rooms that have cinema style Dolby sound processing equipment, you can set up your sequences and finished QuickTime files with audio in the following manner:

2-Channel LtRt (to be decoded in the theater to LCRS Dolby matrix stereo aka Dolby Surround, Dolby Pro Logic).

Export settings from your Final Cut Pro Sequence:

[Sequence settings][audio outputs] must specify **ONLY 2** outputs.

(Note: this is independent of the number of tracks in your sequence and it must be confirmed before you export.) See 2-channel inset below.



2-CHANNEL LtRt STEREO

Because it matters



Prepping files for use on Ki Pro

4/2011

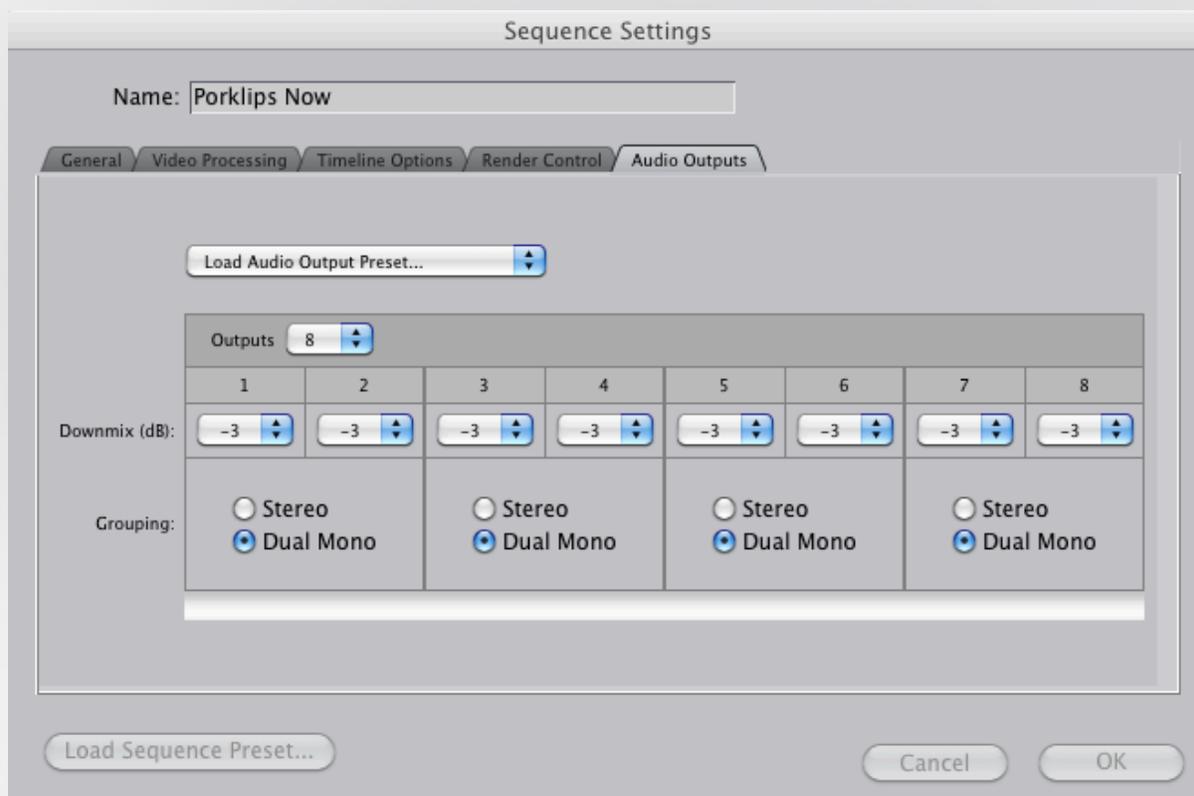
5.1 Channel Discreet (also known as Dolby Digital, or Dolby 5.1. Will be played back as 5.1 discreet).

Export settings from Final Cut Pro Sequence :

The sequence settings/audio outputs must specify EXACTLY 8 outputs.

(Note: this is independent of the number of tracks in your sequence and must be confirmed before you export.)

Please follow the SMPTE speaker mapping spec: 1=L, 2=R, 3=C, 4=Sub, 5=Sur(l), 6=Sur(r).



5.1 STEREO (6-CHANNEL DISCREET)

Because it matters

