	Audio/Video Settings	
Summary 🗸 Sequence Presets 🔪	Capture Presets V Device Control Presets V A/V Devices	
Sequence Preset:	AJA KonaLH: 1080i 29.97 8 Bit	
	Use this setting when editing with the KonaLH at 1080i 29.97 in 8 Bit Uncompressed	
Capture Preset:	AJA KonaLH: 1080i 29.97 8 Bit	•
	Use this setting when editing with the KonaLH at 1080i/29.97 in 8 Bit	
Device Control Preset:	AJA KonaLH: 29.97 Sony VTR	•
	Use this preset when editing with the KonaLH in 29.97 fps.	
Video Playback:	AJA Kona 1080i29.97 8 Bit (1920 x 1080)	•
Audio Playback:	AJA Kona	
	Create Easy Setup	
	Cancel	ОК

Audio/Video Settings, Summary Window

To Create A New Easy Setup

If you have a group of presets that you'd like to use continually, then you can create a new Easy Setup by modifying the settings of the Easy Setup currently selected (pick one most like the one you want to create) and then saving it under a new name:

- 1. Change the currently selected Easy Setup by making changes at the Summary tabbed window via the pulldown menus.
- 2. When everything is set as desired, click on the *Create Easy Setup* button at the bottom of the Summary window.
- **3.** A new dialog will pop up. Enter a descriptive name for the new Easy Setup (i.e., 10-bit SDI from Video Server) in the *Name* field.
- **4.** Enter a sentence or two describing what is unique about the Easy Setup in the *Description* field.
- 5. Click the *Create* button to store the new Easy Setup.

Video Playback:	AJA Kona 1080i29.97 8 Bit (1920 x 108	0)	•
Audio Playback:	AJA Kona 🛟		
	Create Easy Setup		
	†		C 011
	Click Here	Cancel	ОК

Audio/Video Settings, Creating a New Easy Setup



At any point in the above procedure you can go to the other tabbed windows and make additional changes. For example, in the Sequence Presets, Capture Presets, and Device Control Presets windows you can select a preset and click on an *Edit* button to change specific aspects of the preset. As an example, under *Device Control Preset* you might wish to change the Time Source on your VTR from LTC to VITC, or change the pre-roll and post-roll values. When you save a Setup, it defaults to saving in the Final Cut Pro *Custom Setups* folder.

Each of the tabbed preset screens are described on the following pages for your convenience. For more information, please read the Final Cut Pro user documentation.

Sequence Preset:		1080i 29.97 8 Bit	
. <u> </u>	Jse this setting when	n editing with the KonaLH at 1080i 29.97 in 8 Bit Uncompressed	
Capture Preset: (1080i 29.97 8 Bit 🔹	
t	Jse this setting when	n editing with the KonaLH at 1080i/29.97 in 8 Bit	
		Easy Setup	
Device Control Preset	Name		
	Name.	AJA KONA LH- 1080i 29.97 8 Bit Uncompressed	
	Description:	AJA KONA LH- 1080i 29.97 8 Bit Uncompressed	
Video Playback:			
Audio Playback			
	Enable ver	ification of device control in first start dialog	

Audio/Video Settings, Creating An Easy Setup

The Sequence Presets Window

AJA KonaLH: 1080i 25 10 Bit AJA KonaLH: 1080i 25 8 Bit AJA KonaLH: 1080i 25 DVCPro HD AJA KonaLH: 1080i 29.97 10 Bit ✓ AJA KonaLH: 1080i 29.97 8 Bit AJA KonaLH: 1080i 29.97 DVCPro HD AJA KonaLH: 1080i 30 10 Bit AJA KonaLH: 1080i 30 DVCPro HD AJA KonaLH: 1080ps 23.98 10 Bit AJA KonaLH: 1080ps 23.98 8 Bit AJA KonaLH: 1080ps 23.98 Bit AJA KonaLH: 1080ps 23.98 DVCPro HD	Use this setting when editing with the KonaLH at 1080/29.97 in 8 Bit Uncompressed Frame Size: 1920 x 1080 Pixels Editing Timebase: 29.97 fps Field Dominance: Upper (Odd) Pixel Aspect Ratio: Square Anamorphic 16:9: Off Video Processing: VUV allowed (8-bit) White Point: White Compressor: Uncompressed 8-bit 4:2:2 Millions of Colors (24 bit) No Expframes Set Quality: 100 Audio Settings: 16-bit 48.000 kHz Stereo
OTE: A Sequence Preset determines the Editing Timebase	for a sequence. Once a sequence is created, its editing timebase can
hanged only if it contains no clips. Once a sequence conta	ins a clip, its editing timebase cannot be changed.
Duplicate	Edit Delete

Audio/Video Settings, Sequence Presets Window

This window allows you to select an editing timebase for the current sequence. Once you add a clip to the sequence this cannot be changed.

For example, once you've selected uncompressed 10-bit NTSC 48 kHz, you then have to stay in that timebase and can't switch to another. By clicking in the leftmost column (see the checkmark in the sample screen above), you select a new Sequence Preset for use. The checkmark tells which Preset is in use—highlighting a choice alone does not select it.

If you select an editing timebase you can then edit it (click the Edit button) or copy and rename it as another (click Duplicate). When editing a timebase you can change the following:

- Select video processing properties (how to render)
- Frame size and aspect ratio
- Pixel aspect ratio
- Field dominance (none, upper, or lower)
- Editing timebase
- Set QuickTime video codec settings (quality and type)
- Select audio sample rate

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	AJA	VIDEO	SYSTEMS	INC

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	Sequence Preset Editor
Name:	AJA KonaLH: 525 29.97 8 Bit
Description:	Use this setting when editing with the Kona LS at 525 29.97 in 8 Bit Uncompressed
General 🗸 Video	Processing
	Width Height Aspect Ratio
Fra	me Size: 720 x 486 CCIR 601 NTSC (40:27)
Pixel Aspe	ct Ratio: NTSC - CCIR 601 / DV 🔹 🗌 Anamorphic 16:9
Field Dor	ninance: Lower (Even)
Editing Ti	mebase: 29.97 🔹
Timeco	de Rate: Same As Editing Timebase 🛟
QuickTime	Video Settings Audio Settings
Com	pressor: Uncompressed 8-b 🔹 Rate: 48.000 🔹
	Quality:
	Advanced
	Aurdinesu
	Cancel OK

Audio/Video Settings, Sequence Presets Editor Window

The Capture Presets Window

	AJA KonaLH: 1080i 25 10 Bit AJA KonaLH: 1080i 25 8 Bit AJA KonaLH: 1080i 25 DVCPro HD	1	Use this setting when editing with the KonaLH at 1080i/29.97 in 8 Bit Using AJA Kona 8-bit Digitizer for video input
	AJA KonaLH: 1080i 29.97 10 Bit	-	1080i29.97 (1920x1080) using NTSC 29.97 frames per second
1	AJA KonaLH: 1080i 29.97 8 Bit		Uncompressed 8-bit 4:2:2 at Medium quality. 24 bits per pixel
	AJA KonaLH: 1080i 29.97 DVCPro HD		1920 by 1080 Using AJA Kona for audio input
	AJA KonaLH: 1080i 30 10 Bit		Input: Default
	AJA KonaLH: 1080i 30 8 Bit	Format: 48.000 kHz 24-bit 6-chan Speaker: off	Speaker: off
	AJA KonaLH: 1080i 30 DVCPro HD		Volume: 100, Gain: 100
	AJA KonaLH: 1080psf 23.98 10 Bit		
	AJA KonaLH: 1080psf 23.98 8 Bit		
	AJA KonaLH: 1080psf 23.98 DVCPro HD		
	AJA KonaLH: 1080psf 24 10 Bit	Ă	
_	AIA KonaLH: 1080psf 24 8 Bit	v	
e),	4 F	
	(Duplicate)	Edit	Delete

Audio/Video Settings, Capture Presets Window

This window lets you choose a preset format for incoming source video and audio media you'll be capturing. Select the maximum quality format you'll be using for most of the material so there will be no need to re-render later. The information on the right window pane describes the preset and all it's parameters. If you select a format by making a checkmark in the left column, you can edit it (click the Edit button) or copy and rename it as another (click Duplicate). The only exceptions to this are those presets marked with a lock icon; those can be duplicated, but when you try to edit one the system reports they're locked and can only be copied (it will create the copy for you when you try to edit).

Factory AJA presets are easily identified by "AJA" at the beginning of their name.

Since Capture Presets will be used frequently as you bring media into KONA LH, we'll discuss the edit screen next.

Name:	AJA KonaLH: 1080i	29.97 8 Bit			
escription:	Use this setting wh	en editing with	the KonaLH at 1	1080i/29.97 in 8 Bit	
	Width Height As	spect Ratio			
rame Size:	1920 x 1080	HDTV 1080i (1	16:9)	Anamorphic	16:9
uickTime V	ideo Settings				
Digitizer:	AJA Kona 8-bit [Digitizer 🛟	Compressor:	Uncompressed 8-	-bit 4:2:2
Input:	1080i29.97 (192	0x1080) 🛟	Quality:	g	100 9
			FPS:	29.97	
			imit Data Rate	0 K	Advanced
uickTime A	udio <mark>Settings</mark>				
Device:	AJA Kona	•			
Input:	Default 🗧		Format:	48.000 kHz 24-b	it 6-chan 🕴
Canturo Car	d Supports Simulta	noous Play The	ough and Cantur	20	
	anced Pulldown (2:		-		
	y Video Play Throug		- 15 and 54-50	Jources	

Capture Presets Editing

Audio/Video Settings, Capture Presets Editing Window

Note: Whenever a Preset is being copied as the basis of a new preset, always change the name and description to fit the new preset so users aren't confused between it and the original.

- Frame Size—below the name and description are the frame size settings. These can be changed via the pulldown menu. Selecting a new *Aspect Ratio* value also changes the values in the width and height fields.
- QuickTime Video Settings—these settings select a video input source and affect how it's processed by Final Cut Pro. The *Digitizer* pull-down menu selects whether you want the selected input source to be digitized as 8-bit or 10-bit uncompressed video as it comes into KONA LH. The *Input* pull-down selects the primary format KONA LH will use to capture input video. The *Compressor* pull-down selects a codec that tells Final Cut how to process the video; the codec selected should be chosen for compatibility with the Digitizer setting selected. For example, if your Digitizer setting is 10-bit Uncompressed, then the Compressor

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setting should be one of the 10-bit choices available. The *Quality* slider should be set to 100 percent when capturing uncompressed; for other formats use an appropriate quality level. Set the *FPS* (Frames Per Second) setting to the correct frame rate. The *Advanced* settings button opens a new screen providing choices of codec-specific options. For uncompressed codecs these probably are not unneeded; for other codecs choose the options desired.

QuickTime Audio Settings—these settings select an audio input source and affect how it's processed by Final Cut Pro. The *Device* pull-down should be set to AJA Kona. The *Input* pull-down selects that KONA LH (AJA Kona) will be used for capturing audio—it does not select the specific inputs. For specific audio input selection use the KONA LH Control Panel. The *Rate* pull-down selects a sample rate; it should always be set to 48 kHz for KONA LH. By clicking on the *Advanced* button, a new screen will be displayed where you can select between 8- and 16-bit sampling—AJA recommends 16-bit for optimum sound quality. (This has nothing to do with input format, as KONA LH supports 20bit SD embedded audio, and 24-bit AES audio.)

The Device Control Presets Window

resets: AJA Kona2: 29.97 Sony VTR AJA Kona2: 720p 59.94 Varicam Panasonik AJA KonaLH: 23.98 Sony VTR AJA KonaLH: 24 Sony VTR AJA KonaLH: 25 Sony VTR AJA KonaLH: 25 Sony VTR AJA KonaLH: 29.97 Sony VTR AJA KonaLH: 20.97 Sony VTR AJA KonaLH: 20.97 Sony VTR AJA KonaLH: 720p 59.94 Panasonic VTR AJA KonaLH: 720p 59.94 Varicam Panason AJA KonaLH: 720p 59.94 Varicam Panason AJA KonaLH: 720p 59.94 Varicam Panason DVCPRO HD 1080i50 FireWire DVCPRO HD FireWire FireWire NTSC FireWire NTSC Basic	Summary: Use this preset when editing with the KonaLH in 29.97 fps. Protocol: Sony RS-422 Time Source: LTC Port: Kona Serial Audio Device Control mapping (Ch1-8): 4 Channels Frame Rate: 29.97 Use deck search mechanism Pre-roll: 3 seconds Post-roll: 3 seconds Capture Offset:
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Audio/Video Settings, Device Control Presets Window

This window selects machine control parameters for an attached VTR. Your choice here tells Final Cut that KONA LH is handling the machine control parameters for the VTR attached to KONA LH. Alternatively, you could also select a different device for input/output instead of KONA LH; for example, if you have a IEEE 1394 camcorder attached to the Power Mac's FireWire port you might choose "FireWire NTSC." The information on the right window pane describes the current

machine control settings and parameters for the VTR attached. For KONA LH presets this means the VTR attached at the RS422 port on KONA LH. For non-KONA LH presets, this means camcorder/VTRs attached directly at the FireWire port or via some other interface.

If you select a preset you can edit it (click the Edit button) or copy and rename it as another (click Duplicate). The only exceptions are those presets marked with a lock icon; those can be duplicated, but when you try to edit one the system will report they're locked and can only be copied (it will create the copy when you try to edit).

When editing a Device Control preset you can change the following:

- Name and description of Device Control preset
- Protocol for capture/playback VTR (for KONA LH this will be RS422)
- Audio Mapping
- Time Source (LTC/VITC/both/etc.)
- Port
- Frame Rate
- Default Timecode (Drop Frame etc.)
- Capture/Playback Offsets (to correct for VTR versus Final Cut timing issues)
- Handles/Pre-roll/Post-roll
- Auto Record and PTV

KONA LH ships with VTR Device Control Presets for Sony and Panasonic VTRs. Select a Device Control Preset for the desired frame rate. Presets for both Sony and Panasonic VTRs are provided with these frame rates: 23.98, 24, 25, 29.97, and 59.94.

	Device Co	ntrol Preset Editor
Name:	AJA KonaLH: 29.97 So	ny VTR
Description:	Use this preset when o	controlling your NTSC device via AJA KONA
Protocol:	Sony RS-422	•
Audio Mapping:	4 Channels 📢	
Time Source:	LTC	•
Port:	Kona Serial	
Frame Rate:	29.97	
Default Timecode:	Drop Frame	;
	🗹 Use Deck Search Me	echanism
Capture Offset:	-2.5	Pre-roll: 3 second
Handle Size:	00:00:00;00	Post-roll: 3 second
	00:00:00	Auto Record and PTV after: 3 seconds

Audio/Video Settings, Device Control Presets Editor Window



The A/V Devices Window

Video:	AJA Kona 1080i29.97 8 Bit (1920 x 1080) €	Options)
Audio:	AJA Kona 🗘	Options)
Audio:	Default 🛟	Options
Do not	show External A/V Device Warning when device not fo	und on launch
	show warning when audio outputs are greater than au	

Audio/Video Settings, A/V Devices Window

The A/V Devices window selects the current playback device for both audio and video. Typically, you'll select KONA LH for both playback devices. The format chosen determines the Primary format for the KONA LH board during playback. The Video *Options* button is greyed out for KONA LH (use the KONA LH Control Panel for video configuration; the Audio *Options* button opens a second dialog where Final Cut gives options for changing bit depth, number of channels, and the sample rate. Since Final Cut currently only supports 2 channels of audio, AJA recommends you leave all of these settings as set in the factory defaults.

You may wish to use a different KONA LH output for final Print-to-tape from Final Cut. You can select that in this window by clicking the checkbox "Different Output for Edit to Tape/Print to Video." This allows you to select via a pull-down menu any KONA LH video output and audio output.

The window also allows you to turn on and off device and audio output warnings.