# Sony PMW F5 recording to Gemini 10 bit 4444 Dual Link Recording Workflow

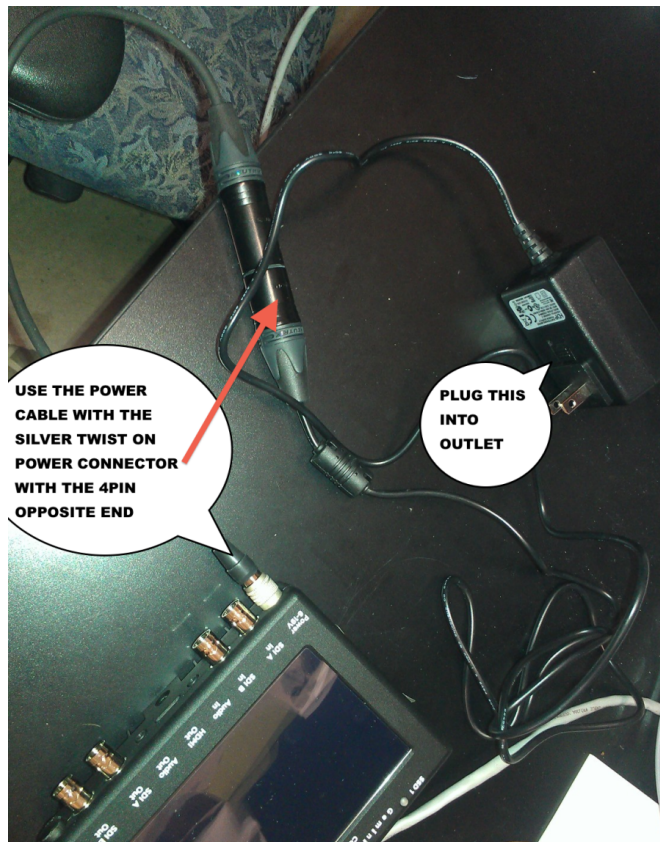The unit comes with 2 SSD Cards that hold 512 Gigs of data each

You will get 84min of 4:4:4:4 10 bit recording on the two cards

Load them into the Gemini by flipping down the metal doors in the back of the unit and sliding the cards in. They only go one way so don't force them. Insert them with the sata connection towards the unit and the labeling facing up.
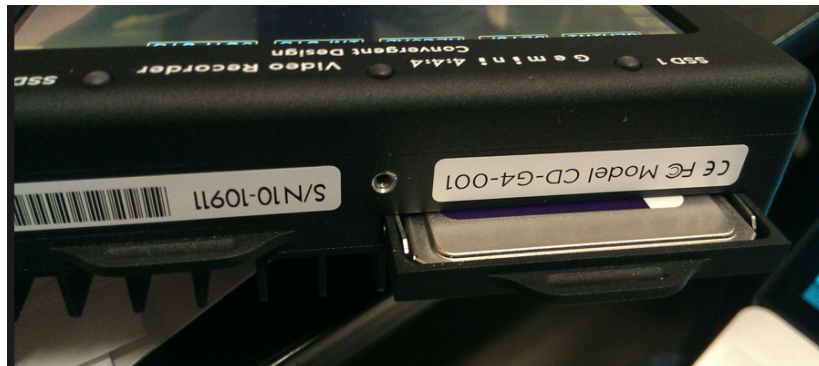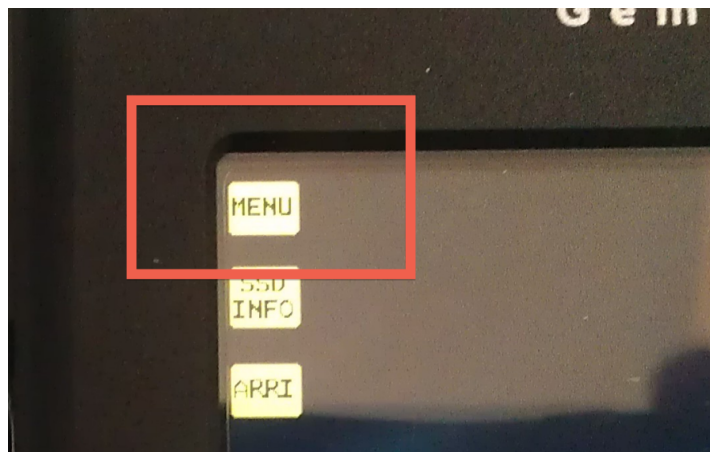
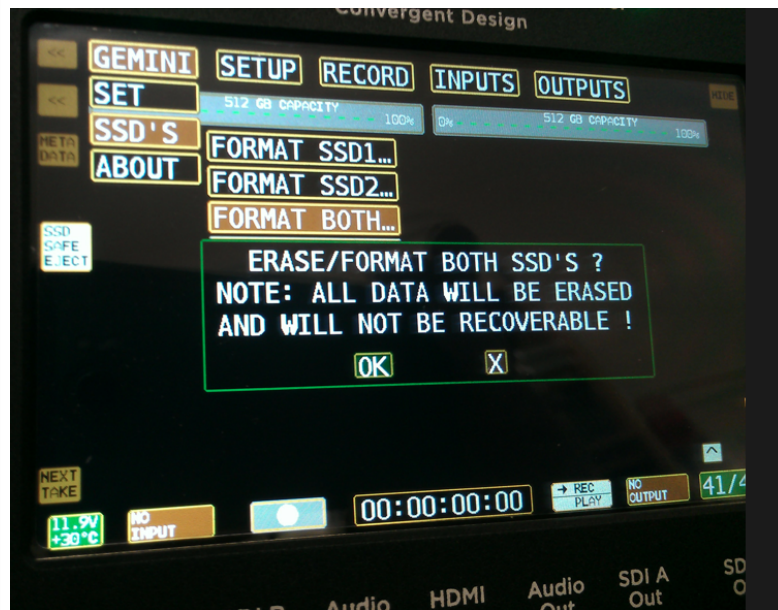|	
Power connections for the Gemini	
When the unit powers on you will see both green lights signaling both SSD cards are being accessed	
Next step is to format the SSD cards. Click on "Menu"	

Click on "Gemini" SSD's > Format Both – OK

Formatting please wait – Takes about 1 min per card to format
Each card is about 512 gigs

Gemini does support spanning but try to avoid it.

Next go to the "Setup" menu and set that to >Project>Frame Rate> Follows Input

This will set the Gemini to record the same frame rate as the camera is outputting.
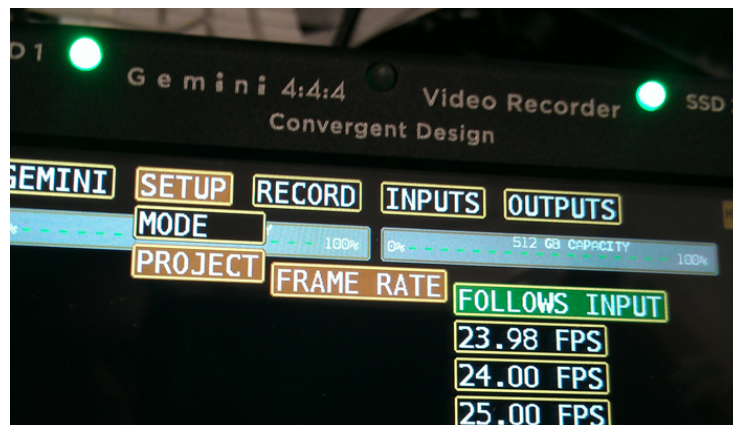
Set the Gemini to start recording when the camera starts recording.
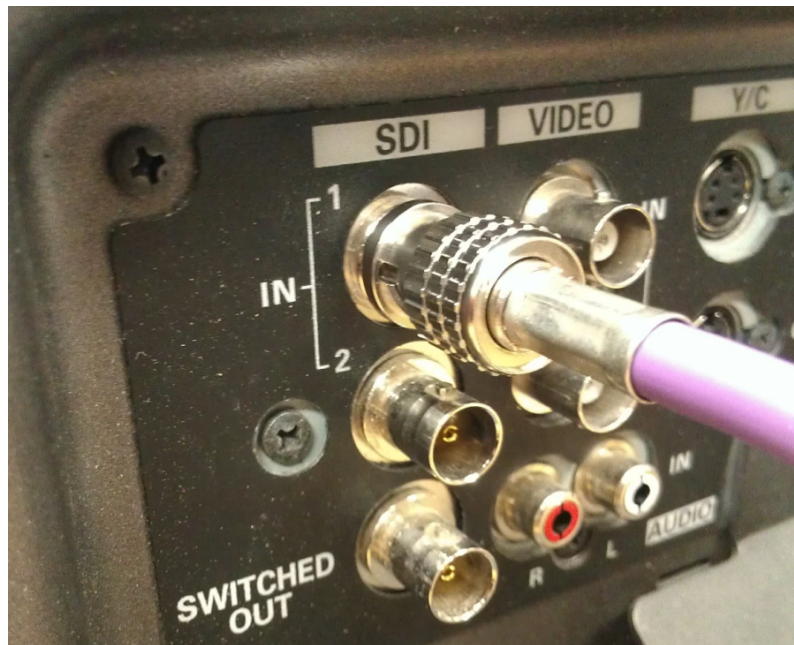
Go to Menu>Record>Trigger>Camera

Plug in the SDI 1 and SDI 2 Out of the F5 into the SDI A and B Input on the Gemini	
SDI A and B Input on the Gemini Plug into the Gemini	

SDI 3 which has the camera menu overlays plug into the monitor input	
Turn on the Sony F5 using the on switch	
Use the knob to Navigate through the menus and press the knob to select the menu item	

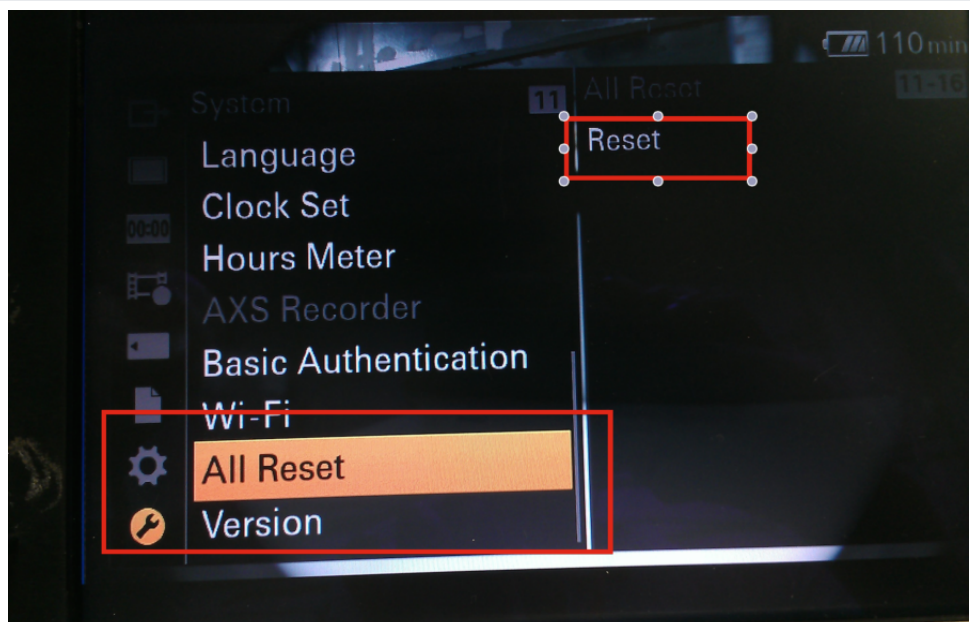|	
Go to System Menu	
Reset the camera to defaults Go to System>System Settings	
Scroll down to All Reset and choose Reset Will have to power cycle the camera	
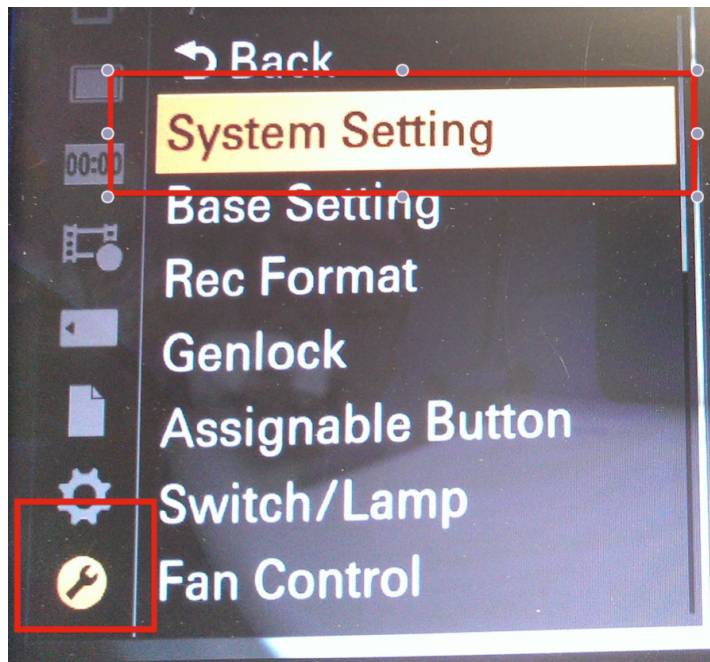
Go to System > Record Format> HD	
Select the Record Format	
These are the choices>you can only choose the XAVC 1920x1080 because the Gemini does not work with the XAVC 2048 x 1080 you have to use the SXS Pro cards or the sony external recorder to record these formats	
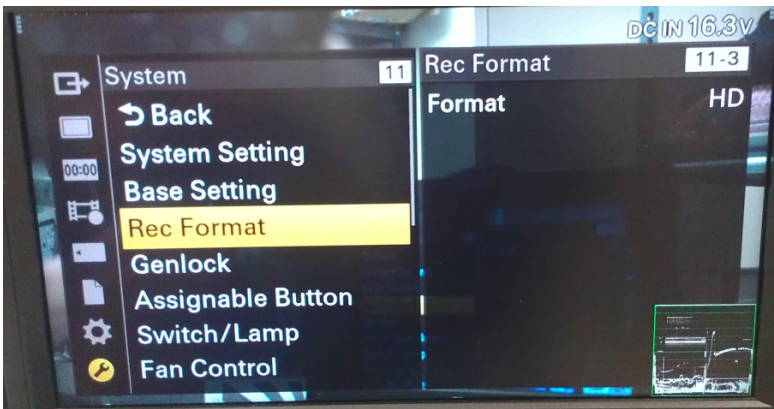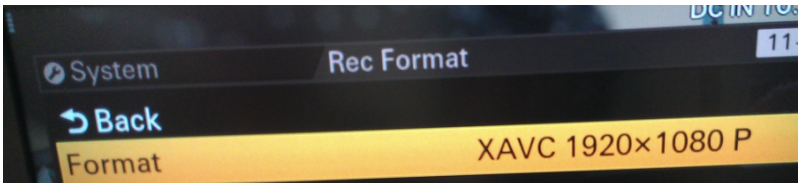
Use these Sony SXS Pro cards to record 2048 x 1080 2K footage

32 gig will hold 40 min and the 64 gig will hold 80 minutes

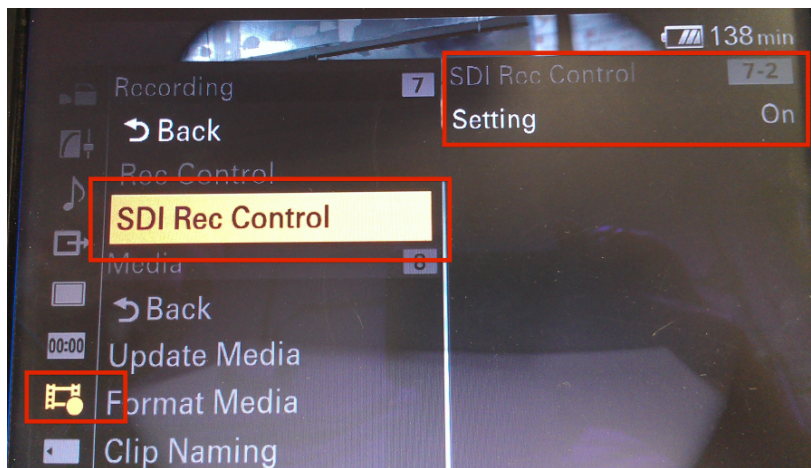Choose the basic HD XAVC 1920 x 1080P setting

Next got to

Go to Recording Menu

Choose>SDI Rec Control Setting set to "On"
This will put the Gemini in record when you press record on the camera

On the Gemini select the >Record>Trigger> Camera to place the Gemini in the "Camera Control" mode	
Note on the Gemini that the unit shows that the recording will be controlled by the camera	
Currently the camera is set to YPbPr. The Gemini will see a 1080PSF 23.98 4:2:2 signal	
Go to >System>Base Setting>Main Operation>Change the setting to RGB **NOTE we don't have RAW recording capabilities**	
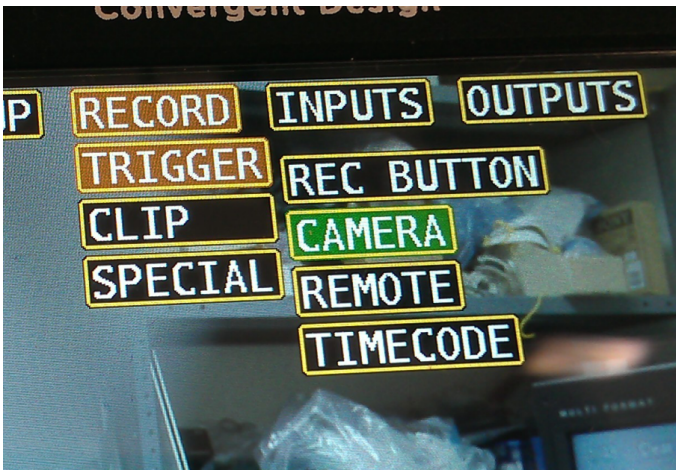
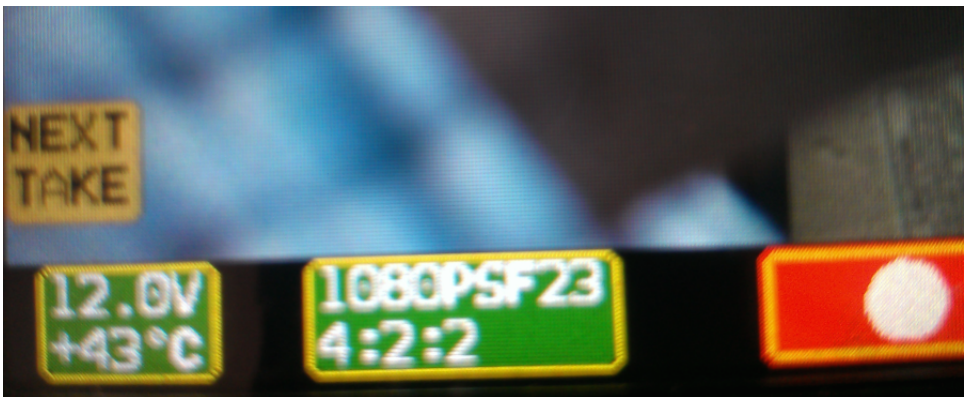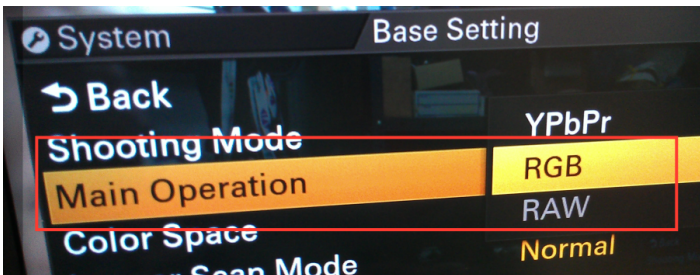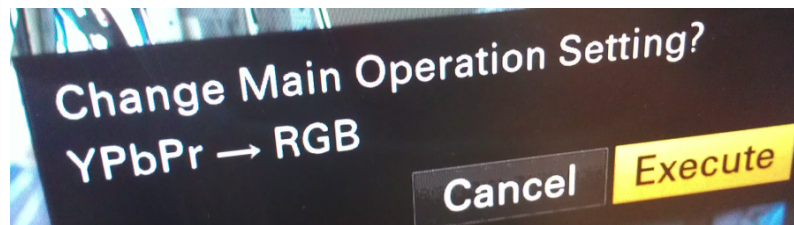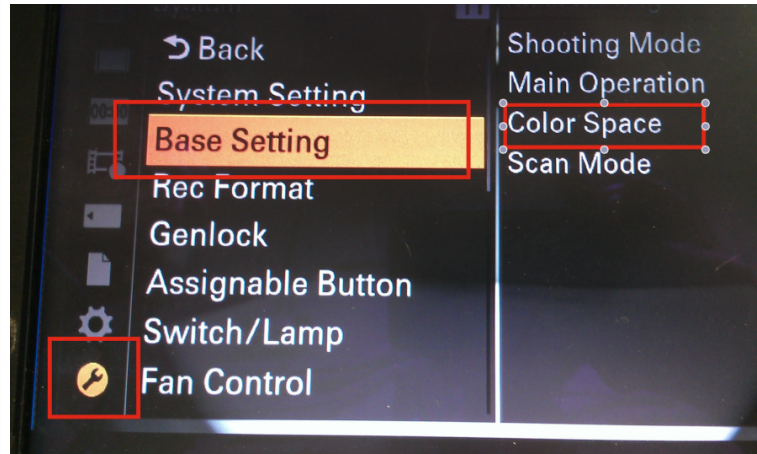|	
Confirm the changes by choosing Execute	Change Main Operation Setting? YPbPr → RGB Cancel Execute
Double check to make sure to set the color space Go to the >System> >Base Setting> Color Space	↩ Back System Setting Base Setting Rec Format Genlock Assignable Button Switch/Lamp Fan Control Shooting Mode Main Operation Color Space Scan Mode
Go to >Color Space>S-Gammut/Slog2	↩ Back Shooting Mode Main Operation Color Space Imager Scan Mode Custom S-Gamut/SLog2 S-Gamut3.Cine/SLog3 Normal
The Gemini now auto detects the 1080PSF signal to be 4:4:4 1080PSF 23.98	NEXT TAKE 12.0V +42°C 1080PSF23 4:4:4
To check the Input status to make sure we are recording dual link click on the soft key 1080PSF 23.98	NEXT TAKE 12.0V +44°C 1080PSF23 4:4:4 Power 6-19V SDI A In SDI B In
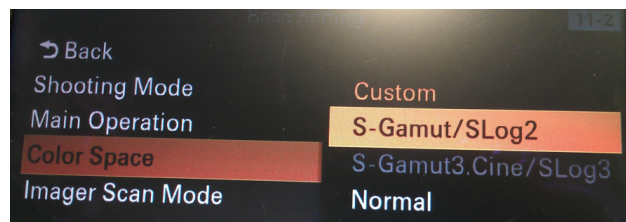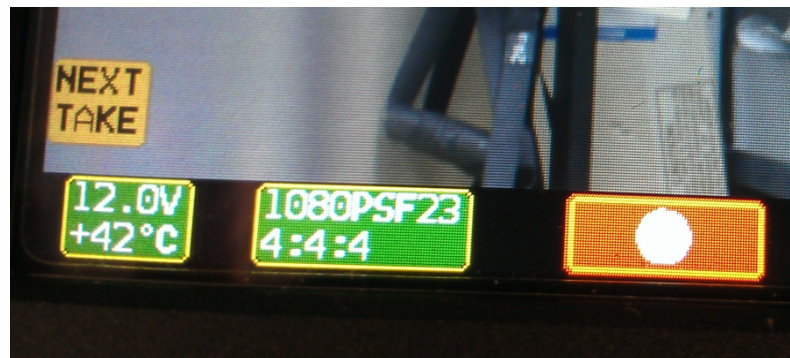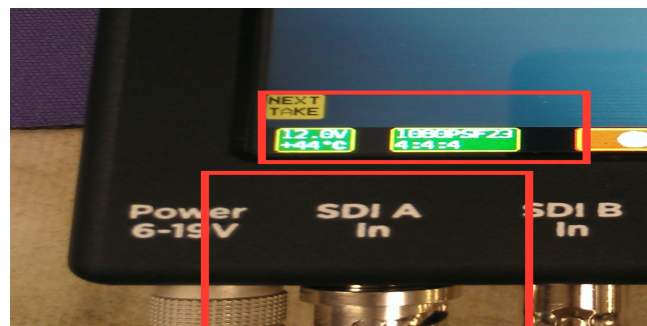
The Input Status should read SDI A: 1080PSF 23.98 4:4:4 SDI B: 1080PSF 23.98 4:4:4 Dual Link 3G DPX 10 Bit The color should look correct on the Gemini Monitor	
Now set to record press record on the Sony F5 camera and it will begin recording on Gemini too	
Gemini in Record mode	
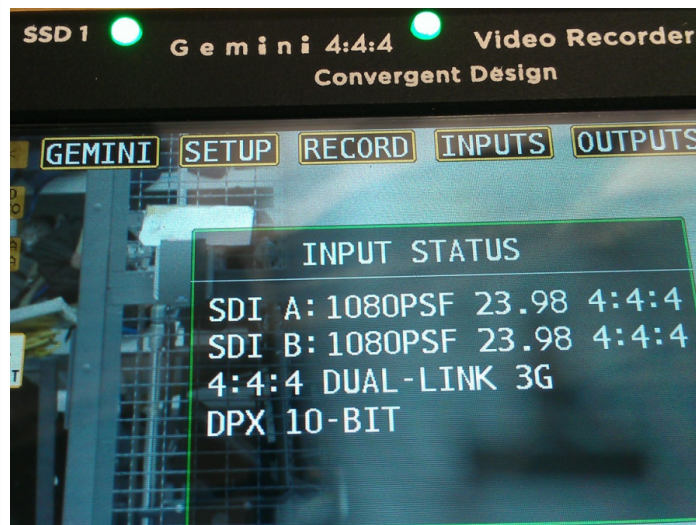
Press the SSD Save Eject and Eject the 1 and 2 cards	
The only way to turn off is to unplug the unit	
Remove the cards and load them into the USB card reader in the Gemini Kit Connect the USB to the computer to offload the media	

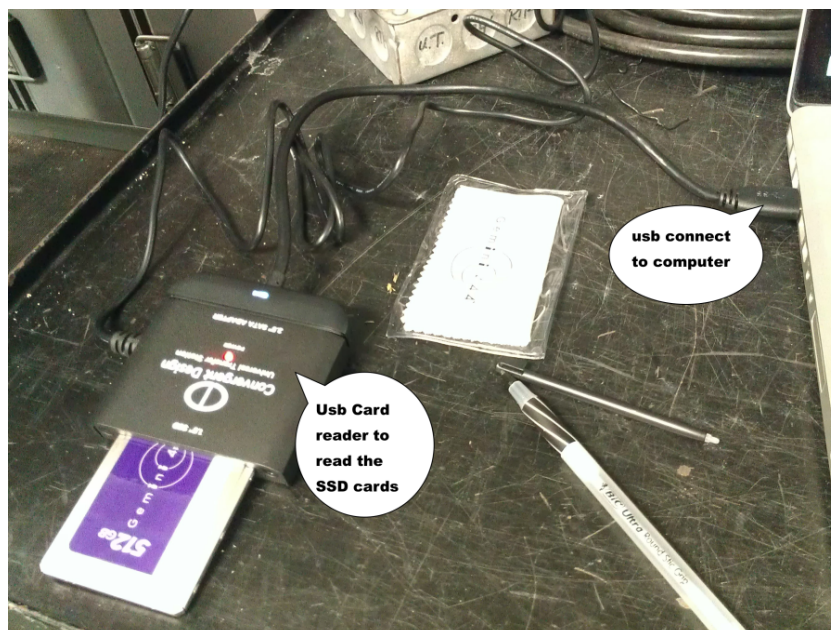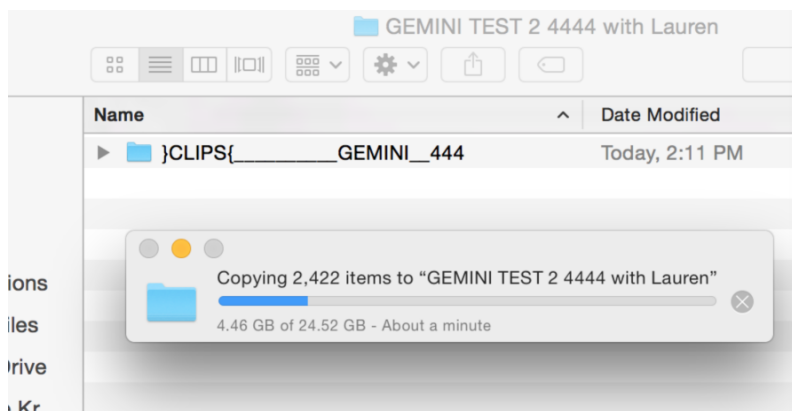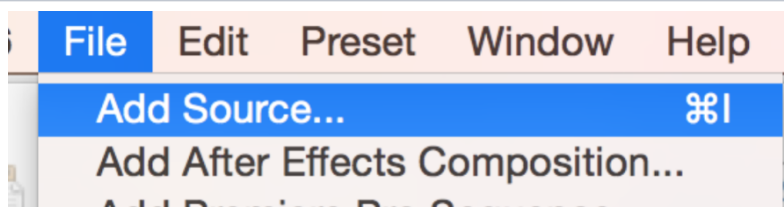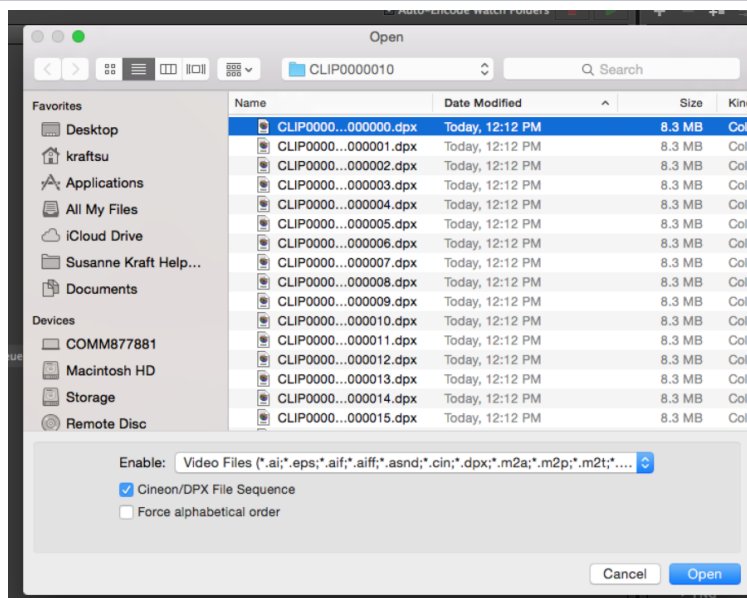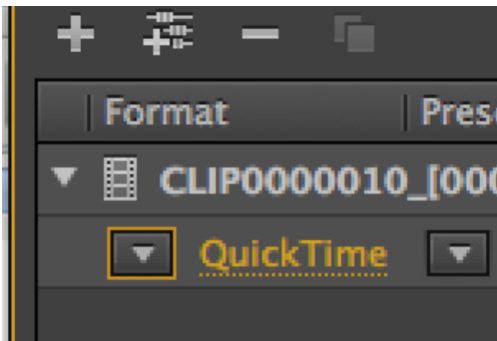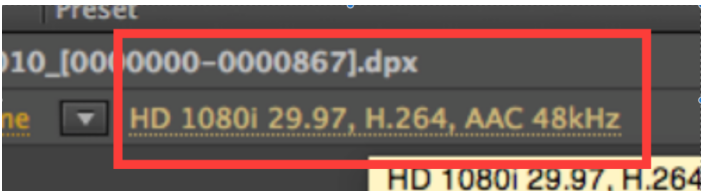| Now we need to load the files into a computer for editing	GEMINI TEST 2 4444 with Lauren Name ⌃ Date Modified ▶ }CLIPS{____GEMINI__444 Today, 2:11 PM ions iles Drive Kr...
Open Adobe Media Encoder	236%
Go to File>Add Source	File Edit Preset Window Help Add Source... ⌘I Add After Effects Composition... Add Premiere Pro Sequence
Make sure the Cineon/DPX File Sequence is checked and then navigate to the firs file of the folder with the lowest number Then Click "Open"	Open CLIP0000010 Q Search Favorites Name Date Modified ⌃ Size Kind Desktop CLIP0000...000000.dpx Today, 12:12 PM 8.3 MB Col kraftsu CLIP0000...000001.dpx Today, 12:12 PM 8.3 MB Col Applications CLIP0000...000002.dpx Today, 12:12 PM 8.3 MB Col All My Files CLIP0000...000003.dpx Today, 12:12 PM 8.3 MB Col iCloud Drive CLIP0000...000004.dpx Today, 12:12 PM 8.3 MB Col Susanne Kraft Help... CLIP0000...000005.dpx Today, 12:12 PM 8.3 MB Col Documents CLIP0000...000006.dpx Today, 12:12 PM 8.3 MB Col CLIP0000...000007.dpx Today, 12:12 PM 8.3 MB Col CLIP0000...000008.dpx Today, 12:12 PM 8.3 MB Col Devices CLIP0000...000009.dpx Today, 12:12 PM 8.3 MB Col COMM877881 CLIP0000...000010.dpx Today, 12:12 PM 8.3 MB Col Macintosh HD CLIP0000...000011.dpx Today, 12:12 PM 8.3 MB Col Storage CLIP0000...000012.dpx Today, 12:12 PM 8.3 MB Col Remote Disc CLIP0000...000013.dpx Today, 12:12 PM 8.3 MB Col CLIP0000...000014.dpx Today, 12:12 PM 8.3 MB Col CLIP0000...000015.dpx Today, 12:12 PM 8.3 MB Col Enable: Video Files (*.ai;*.eps;*.aif;*.aiff;*.asnd;*.cin;*.dpx;*.m2a;*.m2p;*.m2t;*.... ☑ Cineon/DPX File Sequence ☐ Force alphabetical order Cancel Open

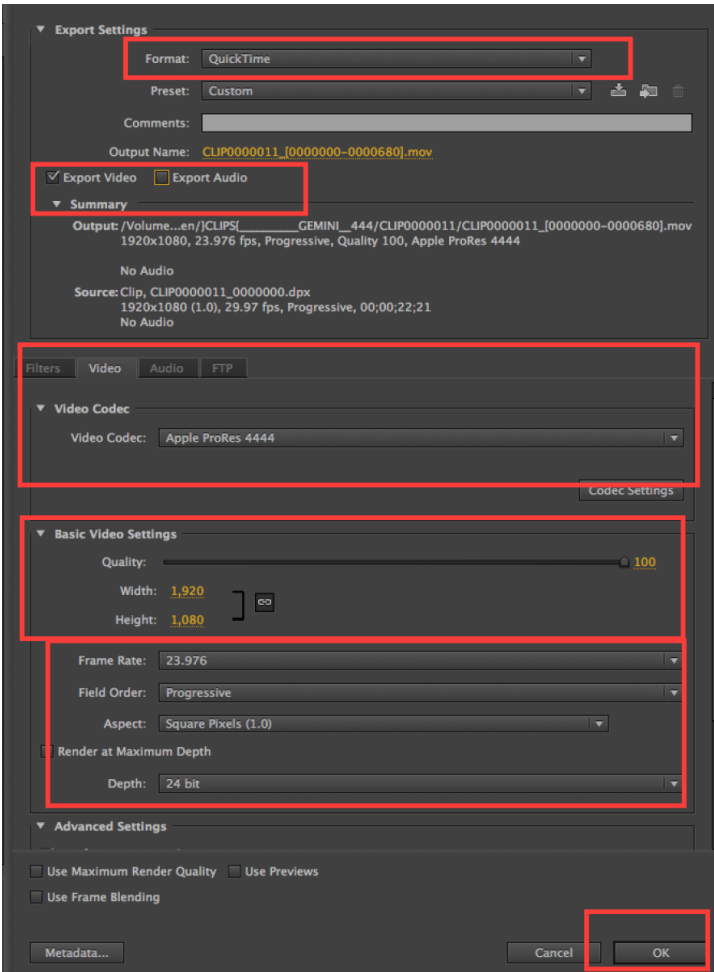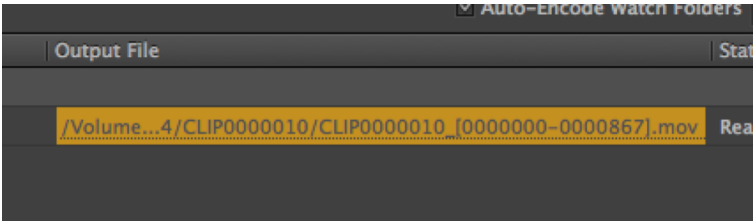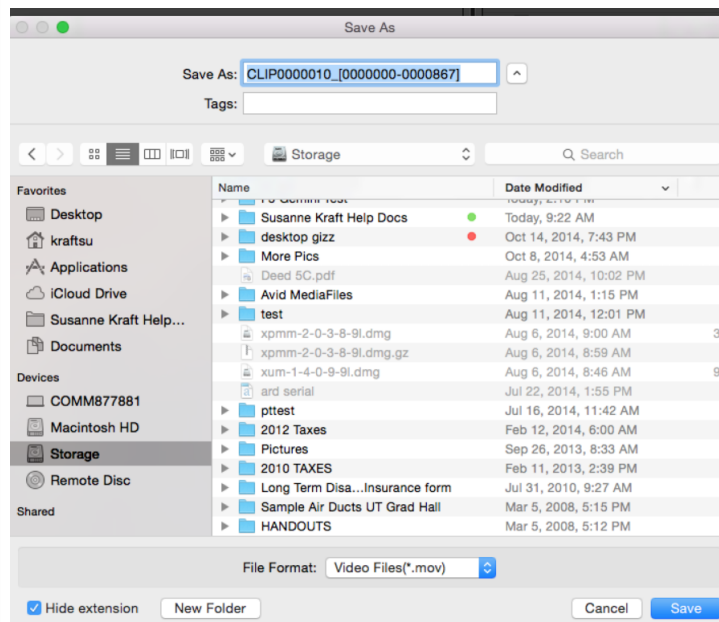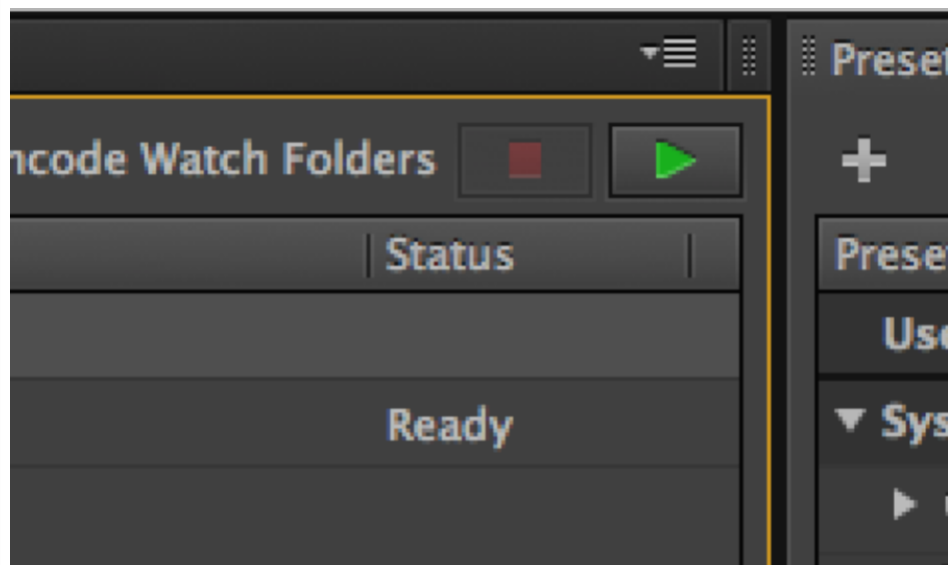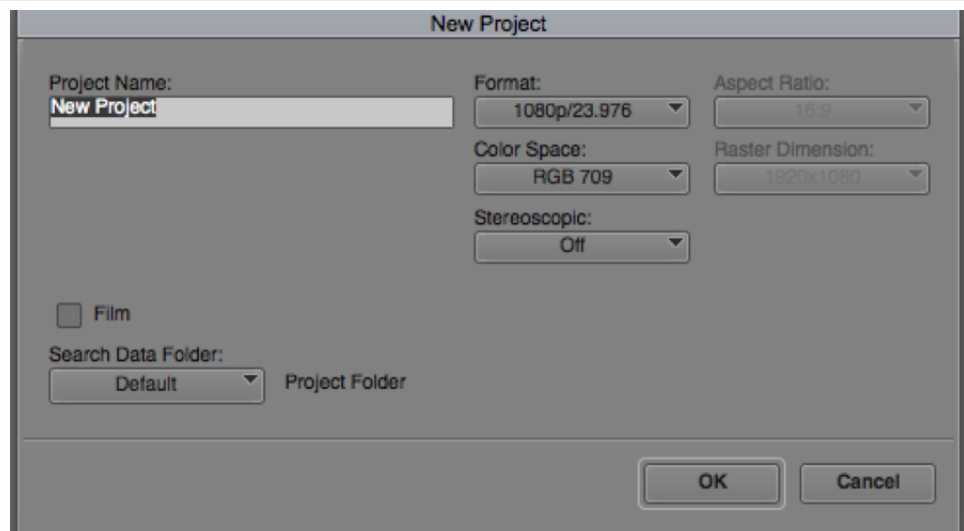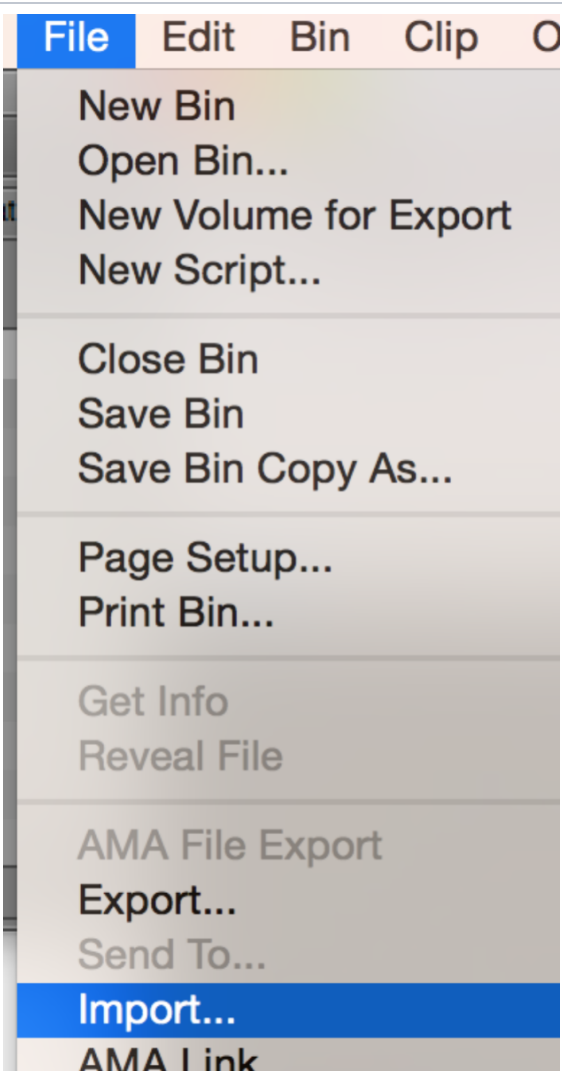|	
Change the Format to QuickTime	
Click on the "Yellow" Preset to set the quicktime settings	
Choose the following: Format – Quicktime Export Video only Choose the Apple ProRes 4444 Video Codec Video Settings set to 100 Frame rate 23.98 Progressive Square Pixels 24 bit Choose to save and click OK	
Click on Output File	

Click the green arrow to start the encode	
Open AVID and create a AVID 1920 x 1080 Color Space - RGB	

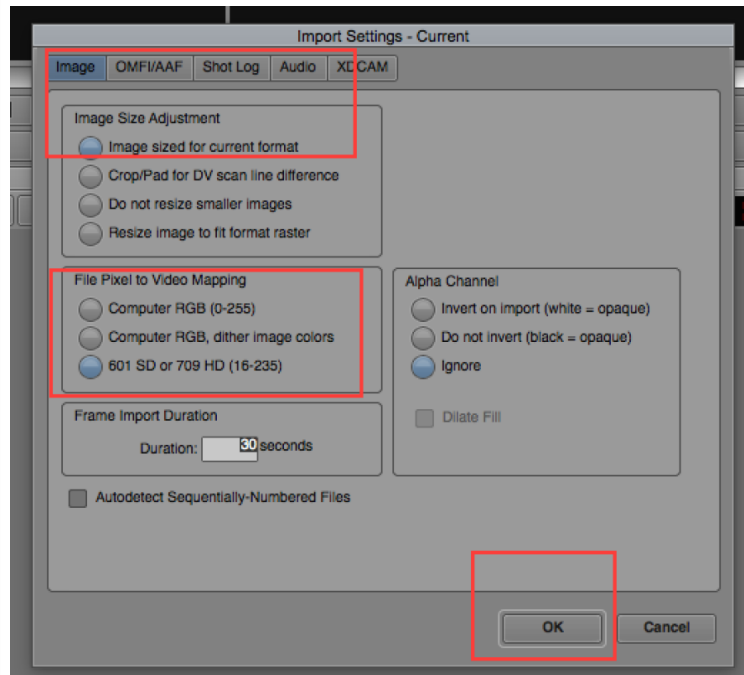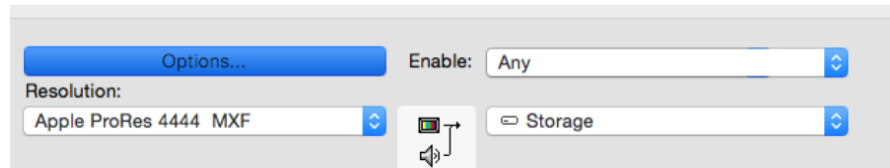|	
File>Import	File Edit Bin Clip O New Bin Open Bin... New Volume for Export New Script... Close Bin Save Bin Save Bin Copy As... Page Setup... Print Bin... Get Info Reveal File AMA File Export Export... Send To... Import... AMA Link
Click on Options	Options... Ena Resolution: Apple ProRes 4444 MXF
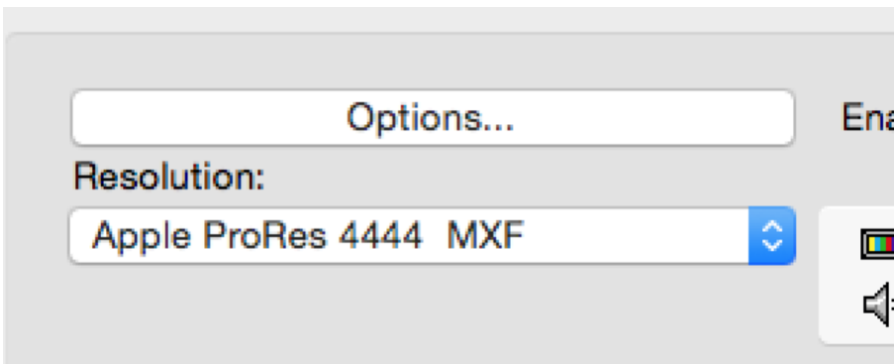
Choose Image sized for current format Choose the 601 or 709 Pixel to Video Mapping Click OK	
Choose the file and the resolution as Apple ProRes 4444 MXF and select the Storage drive as the destination for the AVID file	
The import will fast import the video. You should see the term Fast Import or else the image is not coming in at 10 bit 4444	