

FireStore FS-100 Workflow Guide for Final Cut Pro - 5 Easy Steps

April 20, 2006

Introduction

The Focus Enhancements FireStore FS-100 is a powerful tool designed to interface with the Panasonic AG-HVX200, enabling the end user to capture DVCPRO HD and DVCPRO 50 video clips (as well as standard DV/ DVCPRO 25) in the Panasonic P2 media format. Equipped with an internal 100GB hard disk, the FireStore FS-100 offers long record times in a unique, portable enclosure.

When using the FireStore FS-100 to capture P2 Media from the Panasonic AG-HVX200, it is possible to capture a wide variety of Panasonic P2 formats generated by the AG-HVX200. Hence, it is important to properly set Final Cut Pro (v5) to the correct settings to handle the particular format to be edited.

Following is a list of the formats currently supported with Final Cut Pro v5.1:

DVCPRO HD: 720/60P, 720/30P, 720/24, 1080/60i , 1080/24P

DVCPRO 50: 60i, 30P, 24P and 24PA (Advanced Pulldown)

The P2 formats 720/30PN and 720/24PN are not yet supported for live capture over FireWire. As of this writing, the P2 format 1080/30P is not yet natively supported in Final Cut Pro v5.1.

Breaking Down the Workflow into 5 Easy Steps

In general, the workflow for ingesting and editing P2 Media captured with the FireStore FS-100 can be broken down into five easy steps:

- 1: Organize P2 Folder on FS-100 Prior to Importing to Final Cut Pro**
- 2: Set FS-100 to Disk Drive Mode and connect to your Mac**
- 3: Set Up Final Cut Pro Preferences to Coincide with P2 Captured Format**
- 4: Treat FS-100 Clips as P2 Media in Final Cut Pro: Import P2**
- 5: Edit the FS-100 P2 clips as you would normally edit P2 Media**

Assuming that you have successfully captured P2 media from the Panasonic AG-HVX200 onto the FireStore FS-100, let's begin with the first step.

STEP 1: Organize P2 Folder on FS-100 Prior to Importing to Final Cut Pro

You have just captured P2 media clips with the FireStore FS-100 and are now ready to import those clips into Final Cut Pro. Before importing P2 media from the FS-100 to your Final Cut Pro workstation, you must first run the "Organize P2" utility within the FS-100...

- a) Once shooting with the FS-100 is complete, navigate to the "UTILITIES" screen on the FS-100 using the LEFT or RIGHT Arrow Key
- b) Scroll down to "**ORGANIZE P2**". (Figure 1.01)

c) Press the **SELECT** key on the FS-100 to initiate the "Organize P2" operation.

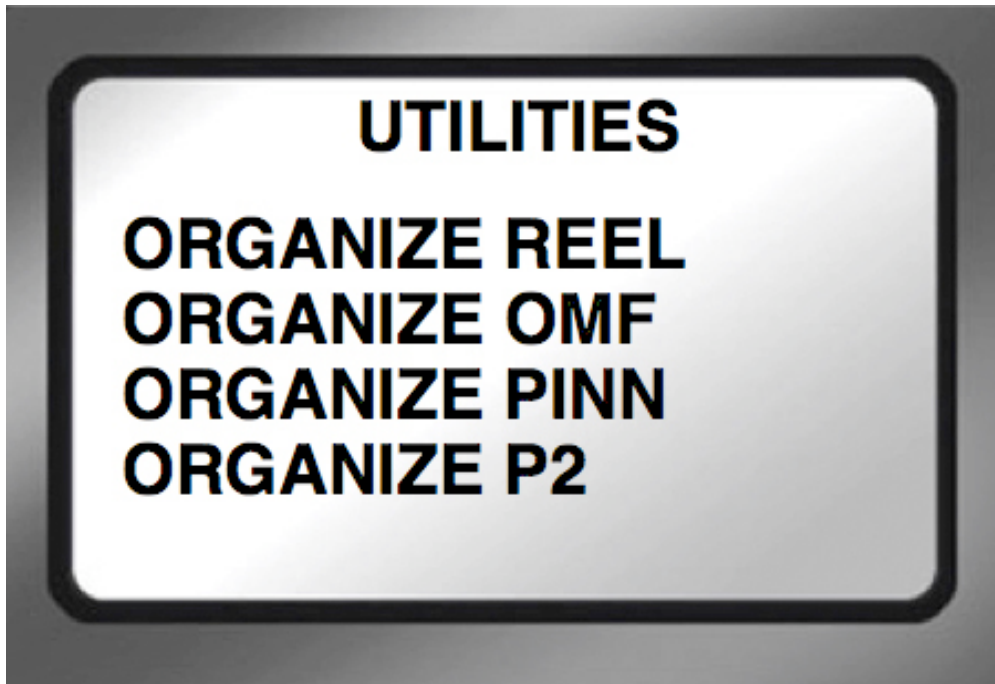


Figure 1.01: Organize P2 Utility

A progress bar will appear for several seconds as the "Organize P2" operation proceeds. Once the "Organize P2" operation is completed, the FS-100 display will return to the main HOME screen.

Now you are ready to set the FS-100 to "Disk Drive" Mode to connect the FS-100 to your Mac.

STEP 2: SET FS-100 to Disk Drive Mode and connect to your Mac

Now that you have performed the "Organize P2" utility within the FireStore FS-100, you are ready to connect the FS-100 to your Mac using a 6-pin to 6-pin FireWire 400 cable.

The FS-100 hard disk is formatted as FAT-32 automatically by the FS-100 to be directly compatible with Mac OS X (or either Windows 2000 or Windows XP if you decide to edit in your favorite PC NLE).

- a) Connect the FS-100 **COMPUTER I/O** port to the FireWire 400 I/O port on your Mac with a 6pin-to-6pin FireWire 400 cable.
- b) On the FS-100, navigate to the "**HDD MODE**" screen, select "**DD DRIVE**", then select "**ENABLE**."

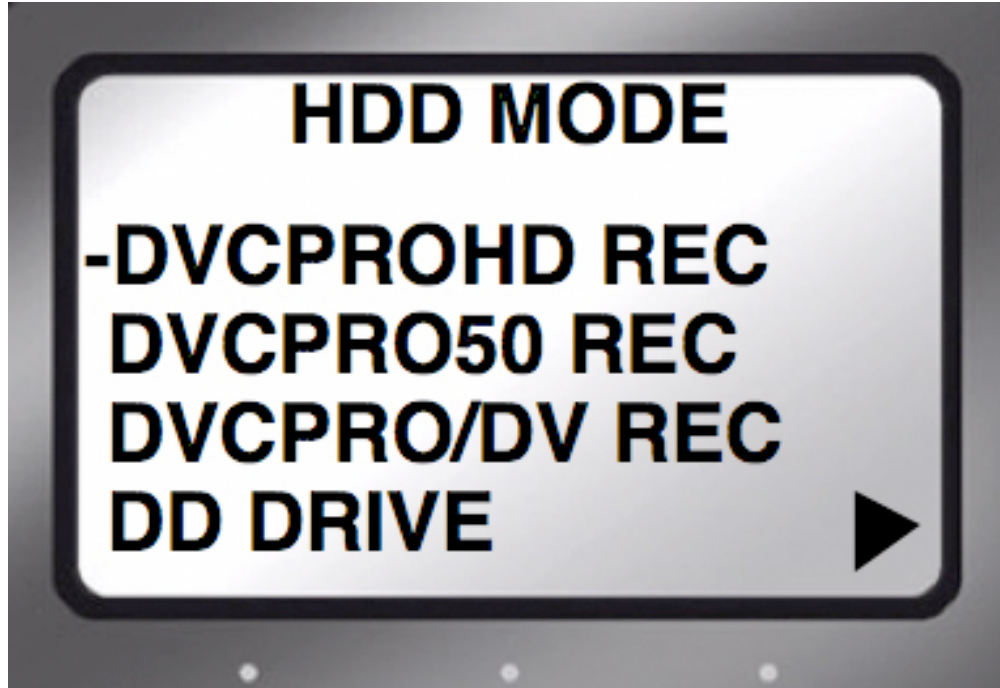


Figure 2.01: DD DRIVE Mode

Once the FS-100 is connected to the Mac in "DD DRIVE" Mode via FireWire, it will mount to the desktop and show up as a regular hard drive. The P2 clips that were captured on the FS-100 are now available to import into Final Cut Pro.

Now, it's time to properly configure Final Cut Pro so that you can ingest the footage and start editing.

STEP 3: Set Up FCP Project Preferences According to Captured Format

You have now successfully connected the FireStore FS-100 to your Final Cut Pro workstation via FireWire. You are now ready to open Final Cut Pro and create an Easy Setup for the particular P2 format that you intend to edit.

a) Open Final Cut Pro

b) If a previous project is open, save and close the project.

Now you are ready to define a new project with an "EASY SETUP". (Figure 3.01)

c) In the Final Cut Pro menu, go to "Final Cut Pro" and select "Easy Setup".

You will see many Easy Setups to choose from. To make things simple, you just need to choose the setup that coincides with the actual P2 format that you captured with the FireStore FS-100.

d) Select the appropriate EASY SETUP.

Selecting a particular Easy Setup allows Final Cut Pro to use the correct Project preferences Presets to coincide with the format of the clips you wish to edit. These Presets include: **Sequence Preset**, **Capture Preset**, **Device Control Preset**, **Playback Output Video** and **Playback Output Audio**.

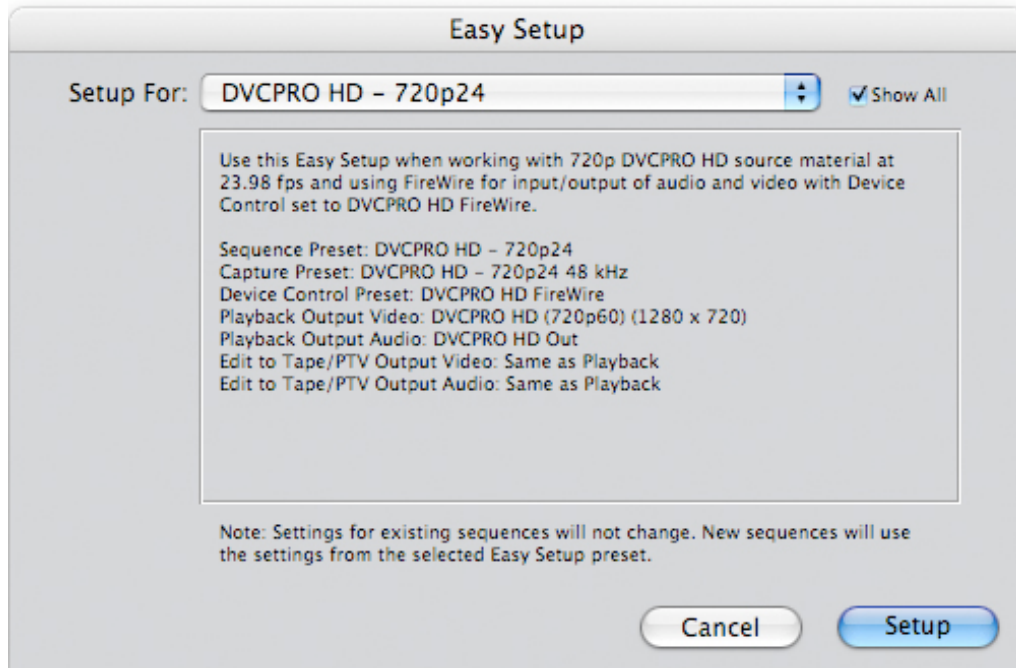


Figure 3.01: Easy Setup Tool

Following is a list of the individual Easy Setups available for each P2 format supported in Final Cut Pro v5.1:

P2 FORMAT	EASY SETUP
720/60P	DVCPRO HD - 720p60
720/30P	DVCPRO HD - 720p30
720/24P	DVCPRO HD - 720p24
1080/60i	DVCPRO HD - 1080i60
1080/24P	DVCPRO HD - 1080P24
DVCPRO 50: 60i	DV50 - NTSC
DVCPRO 50: 30P	DV50 - NTSC
DVCPRO 50: 24P	DV50 - NTSC (Edit and Output as 29.97 DV)
DVCPRO 50/24PA (23.98)	DV50 - NTSC 24P (23.98)

Once you have selected the appropriate Easy Setup, you should then review the **Audio/Video Settings** for that setup to make sure everything is set up correctly.

e) In the Final Cut Pro menu, choose **"Audio/Video Settings"** (Figure 3.02)

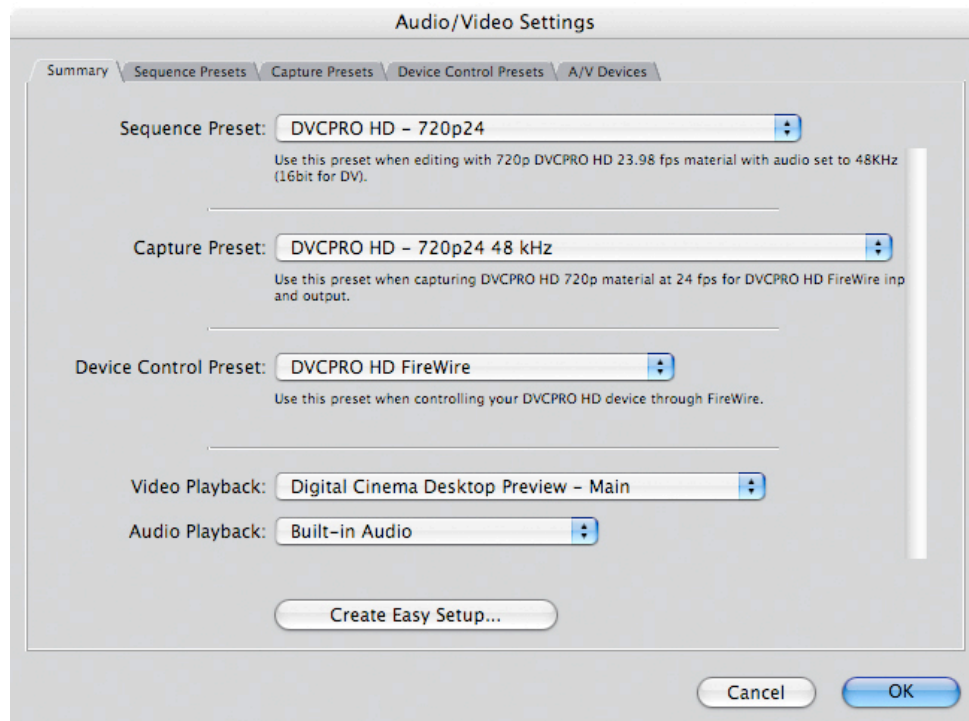


Figure 3.02: Audio/Video Settings

Following is a list of **Audio/Video Settings** for each P2 media format currently supported in Final Cut Pro v5.1:

P2 FORMAT	SEQUENCE PRESET	CAPTURE PRESET	DEVICE CONTROL PRESET
720/60P	DVCPRO HD - 720P60	DVCPRO HD - 720P60 48kHz	DVCPRO HD FireWire
720/30P	DVCPRO HD - 720P30	DVCPRO HD - 720P30 48kHz	DVCPRO HD FireWire
720/24P	DVCPRO HD - 720P24	DVCPRO HD - 720P24 48kHz	DVCPRO HD FireWire
1080/60i	DVCPRO HD - 1080i60	DVCPRO HD - 1080i60 48kHz	DVCPRO HD FireWire
1080/24P	DVCPRO HD - 1080P24	DVCPRO HD - 1080P24 48kHz	DVCPRO HD FireWire
DVCPRO 50: 60i	DV50 - NTSC - 48kHz	DV50 - NTSC - 48kHz	FireWire NTSC
DVCPRO 50: 30P	DV50 - NTSC - 48kHz	DV50 - NTSC - 48kHz	FireWire NTSC
DVCPRO 50: 24P	DV50 - NTSC - 48kHz (Edit and Output as 29.97)	DV50 - NTSC - 48kHz (Edit and Output as 29.97)	FireWire NTSC
DVCPRO 50: 24PA (23.98)	DV50 - NTSC 24P (23.98)	DV50 - NTSC - 48kHz	FireWire NTSC

Once the Audio/Video Settings are correctly set to coincide with the P2 Format of the FS-100 clips to be edited, you are now ready to import the FS-100 P2 media clips into the Final Cut Pro Project Browser.

STEP 4: Treat FS-100 Clips as P2 Media in Final Cut Pro: Import P2

You are now ready to import the FS-100 P2 media clips using the **"Import Panasonic P2"** import menu.

The FireStore FS-100 can capture DVCPRO HD and DVCPRO 50 (as well as standard DV/ DVCPRO 25) as P2 media from the Panasonic AG-HVX200 in the same P2 file format that the AG-HVX200 records to P2 cards. When importing FS-100 P2 media into Final Cut Pro, treat the FS-100 P2 clips in the same way you would with P2 media clips captured to a P2 card.

a) Go to **"FILE"** menu, then go to **"Import"** and select **"Panasonic P2"**. (figure 4.01)

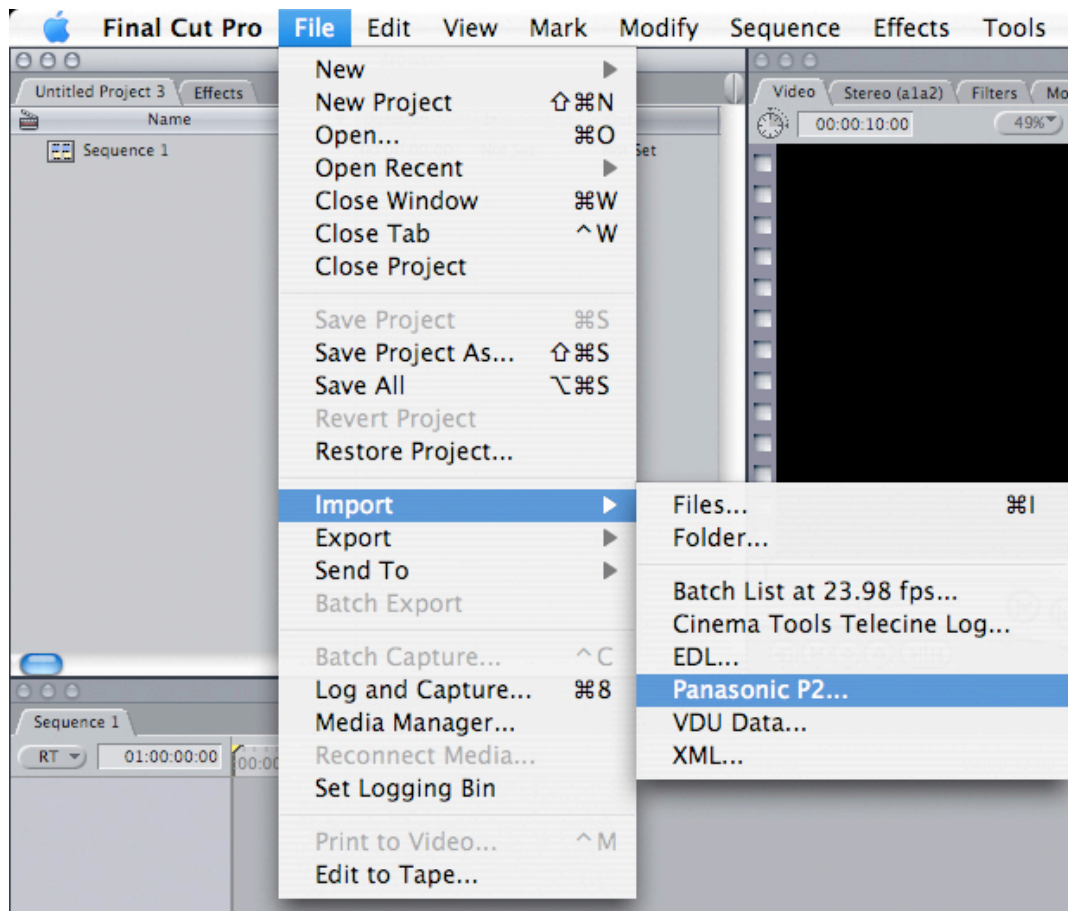


Figure 4.01: Import Panasonic P2 Menu

Version 5.1 of Final Cut Pro offers an additional Import P2 "**Remove Duplicate/Adv. Pull-down Frames**" option that allows you to remove duplicate frames when transferring footage to your Final Cut Pro scratch disk. (Figure 4.02)

By checking this new option during P2 import, Final Cut Pro will create a QuickTime file at the native frame rate coinciding with the particular frame rate in which the Panasonic AG-HVX200 was set to during capture.

Simply put, if you set the AG-HVX200 to capture 720/24P, 720/30P or 1080/24PA, choosing the new "Remove Duplicate/Adv. Pull-down Frames" option will remove the added frames and yield a genuine 24P (23.98) or 30P clip - depending on which format mode you captured in.

This will allow you to edit in a native 23.98 or 30P sequence and to output a genuine 23.98 or 30P deliverable.*

*: 1080/30P is not yet natively supported in Final Cut Pro v5.1.

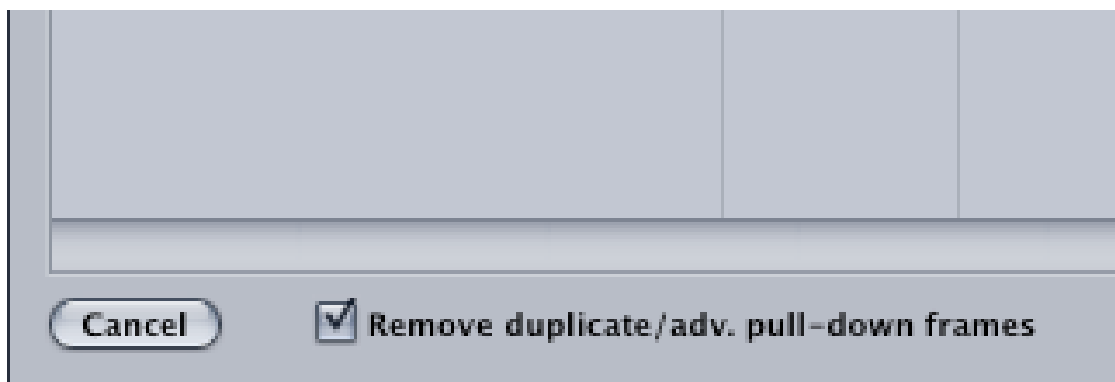


Figure 4.02: Remove duplicate/adv. pull-down frames P2 Import option

Once you select "Import; Panasonic P2", the Import Panasonic P2 tool window will appear. (Figure 4.03)

The Import Panasonic P2 tool will by default select the connected FireStore FS-100 as the source for your P2 media clips.

b) Simply highlight the clips that you want to import and select the "**Import**" button.

You can select any or all of the clips for import.

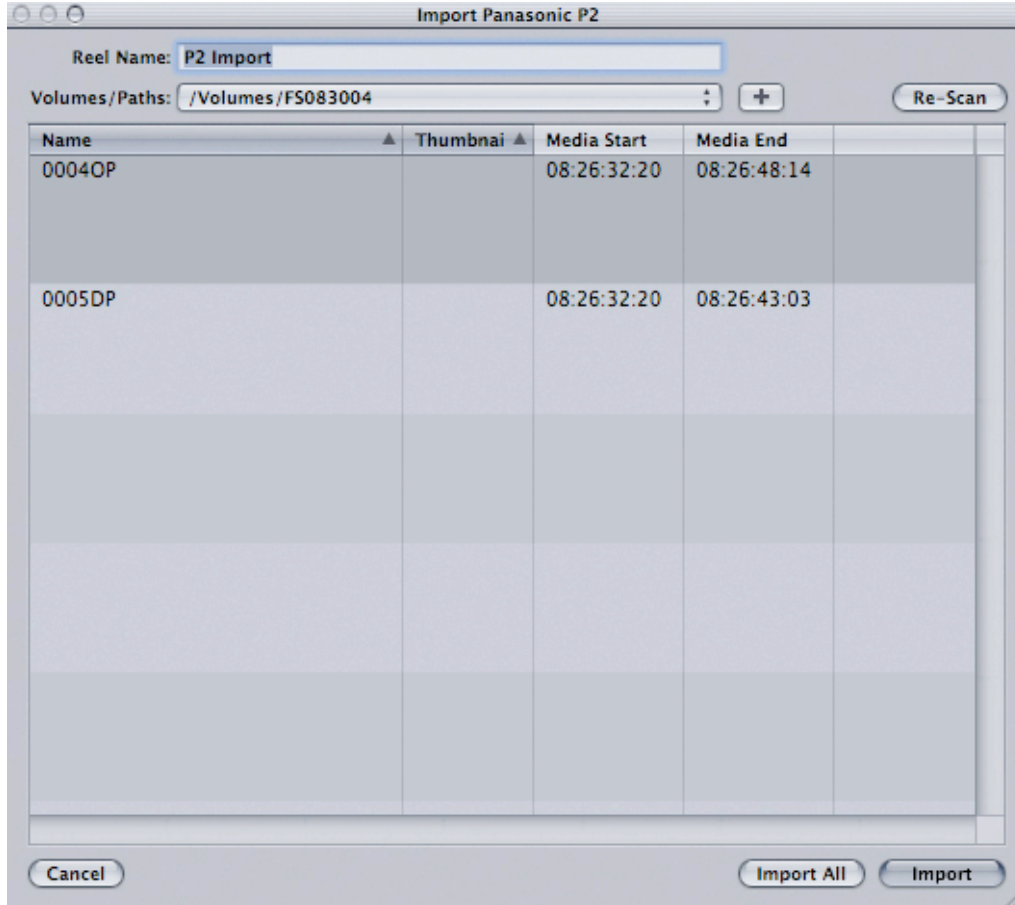


Figure 4.03: Import Panasonic P2 Tool Window

c) To import all of the available FS-100 P2 clips, select the **"Import All"** button.

A progress bar will appear as the selected P2 clips are being imported into the browser. (Figure 4.04)

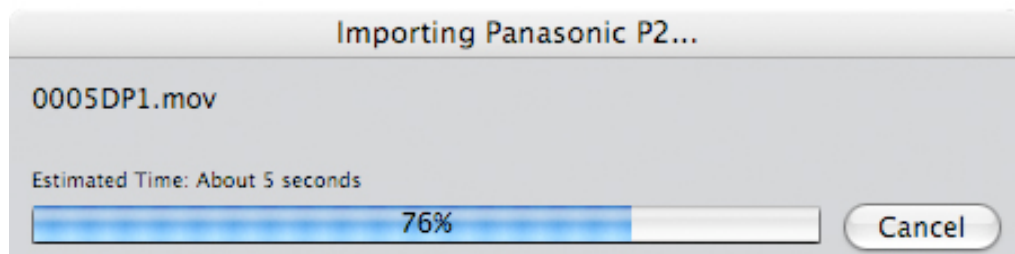


Figure 4.04 Import Panasonic P2 Progress Bar

STEP 5: Edit the FS-100 P2 clips as you would normally edit P2 Media

Final Cut Pro will handle the FireStore FS-100 just in the same way it will handle a standard Panasonic P2 media card.

No need to copy the contents of the FireStore FS-100 to your Final Cut Pro workstation before importing your P2 clips - Final Cut Pro will handle that for you as your P2 media clips are transcoded to QuickTime .mov files during import.

When the Import Panasonic P2 function is complete, all of your ingested P2 media clips will appear in the Final Cut Pro Browser Window as .mov files. (Figure 5.01) This is exactly the same process as if you were importing P2 media clips from a standard P2 media card.

Your clips are now ready to start editing!

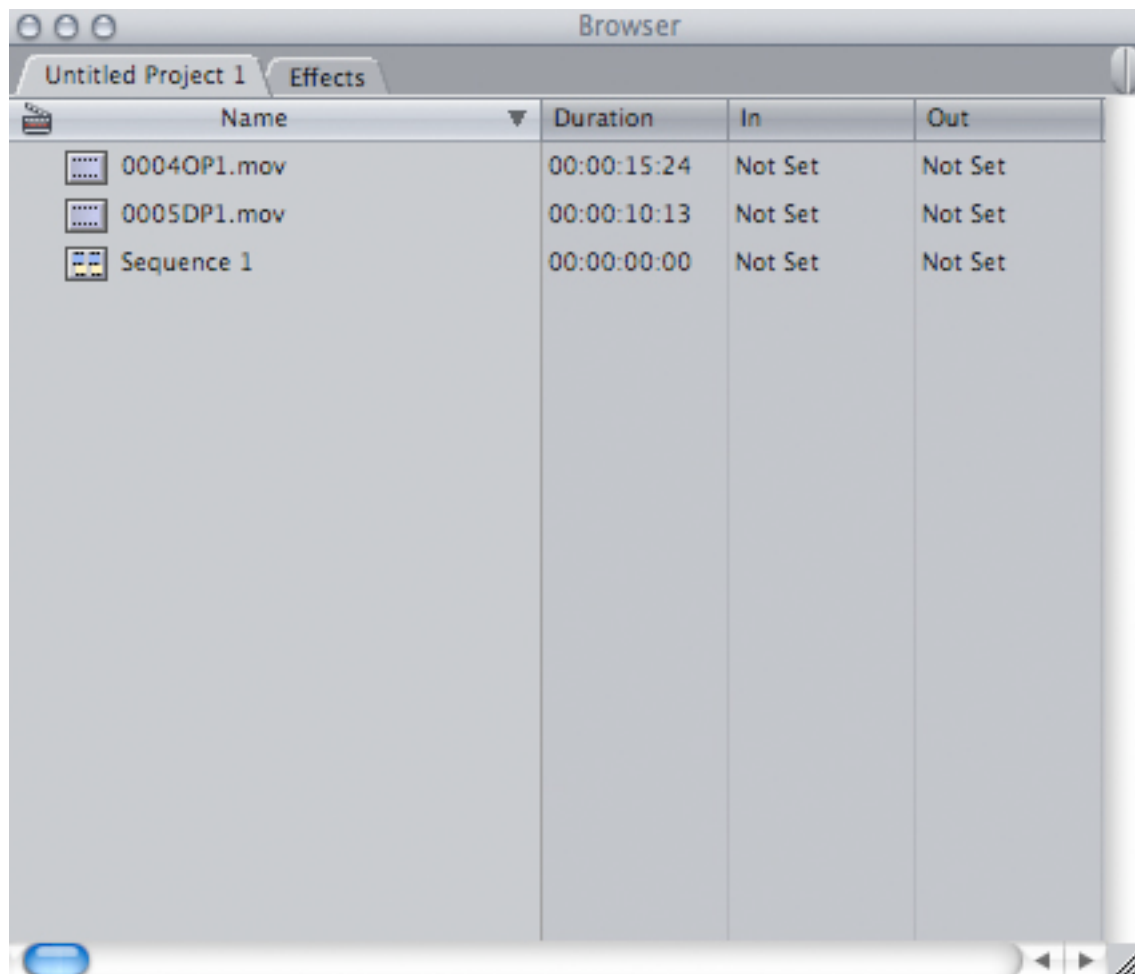


Figure 5.01: Now your ingested clips are ready to edit.

For More Information on FireStore, please visit <http://www.firestore.com>