

## **DRAFT**

### **Recording Video from the SEM**

When operating the SEM, in addition to capturing still images, you can also record a video from the live feed. The process for recording video output from the SEM is outlined below. The steps assume you are already viewing your sample on the microscope.

NOTE: Recording the live SEM video creates very large files, about XX GB for XX seconds. Consequently if you mistakenly hit “record” and leave QuickTime recording, it will write an infinitely/dangerously large file to the computer, potentially filling up the hard drive or file server to which you are recording. Please be mindful of when you start and stop your recording and of the size of these files you are creating.

1. Press the “POWER” button on the small Sony Media Convert analog to digital converter box, located on the floor to left of the SEM.
2. Login to the iMac located to the left of the SEM.
3. On the Mac, open the application “QuickTime”.
4. In QuickTime, from the menu titled “QuickTime” at the top of the screen, select “Preferences”.
5. In Preferences, select the “Recording” tab.
6. In the Recording options, choose the following 4 settings:
  - Video Source = DVMC-DA2
  - Microphone = DVMC-DA2
  - Quality = Best (H.264)
  - Save files to = (select a location)
7. Close the Preferences window.
8. In QuickTime, under the “File” menu at the top, select “New Movie Recording”. A window titled “Movie Recording” will appear, showing the live video feed from the SEM.

At this point, if you do not see the same live SEM video feed that appears on the SEM computer monitor, check that you have performed the previous steps correctly. Upon doing so, if you still do not see the live video feed from the SEM in your QuickTime window on the Mac, then something in the hardware pipeline is possibly malfunctioning. In this case, please see an ITG staff member.

9. When you are ready to record the SEM video feed, press the red record button on the bottom of the QuickTime Movie Recording window.
10. When you wish to stop recording, press the grey stop button on the bottom of this same window (button was previously the record button).
11. A video file named "Movie.mov" will be saved in the location you chose previously in the "Save files to" option. If you record multiple videos, QuickTime will name them sequentially inserting a number after Movie in each file name i.e. "Movie 2.mov, Movie 3.mov, etc.

**Instructions by Darren M. Stevenson, last update 09/21/2010.**