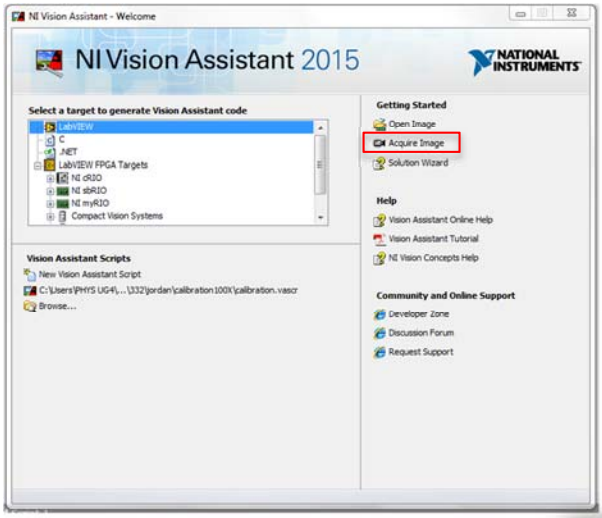
PROTOCOL: ACQUIRING MOVIES WITH VISION ASSISTANT

To acquire a single image, a series of images or to generate a movie

Getting Started

1) Open National Instruments Vision Assistant (icon located on desktop)

2) Select Acquire Image from the welcome dialog



3) We will acquire an image via Firewire (IEEE 1394)

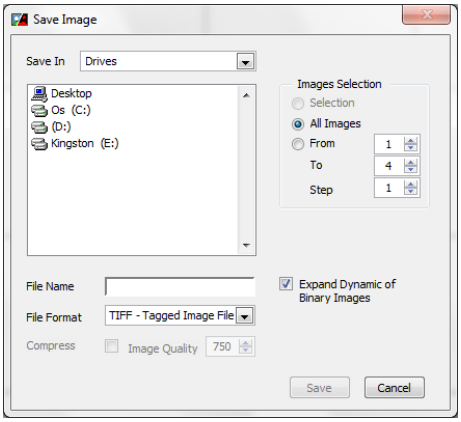
4) Choose the camera that matches your microscope. In this case, choose the Point Grey Research Flea camera. Then  to begin live display

Single Images

5) Once you have found your sample, click on the button  "Store Image Acquisition in Browser".

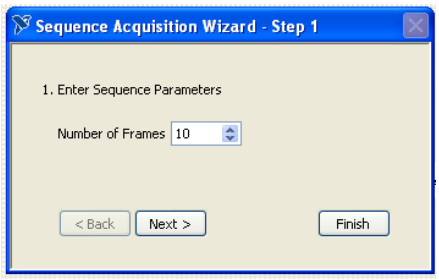
6) Once completed, click on the **Close** button at the bottom of the Acquire Image Setup. Then click on Browse Image at the top right of your screen. Here you can see the sequence of images.

7) You can now save a single image, all of the images or a subset (every n'th image). Go to "File|Save Image". Select File Format "TIFF – Tagged Image File Format." Find a location to save the file, give it a name, and select whether you want to save all the images, step-range of images or selection.



Series of images for generating a movie

5) Once you have found your sample, click the button  to generate a sequence, and you will see a popup:



Choose the number of frames, then click through NEXT. Note that for a region of interest measuring 640 x 480 pixels, the camera will acquire images at 15 frames/sec.

6) Once completed, click on the close button at the bottom of the Acquire Image Setup. Then click on Browse Image at the top right. Here you can see the sequence of images.

7) You can now save a single image, all of the images or a subset (every n'th image) as an AVI movie. Go to "File|Save Image". To save as a movie, click on the drop down menu of format type and select "AVI – AVI Movie File." Find a location to save the file, give it a name, and select whether you want to save all the images or a step-range of images.