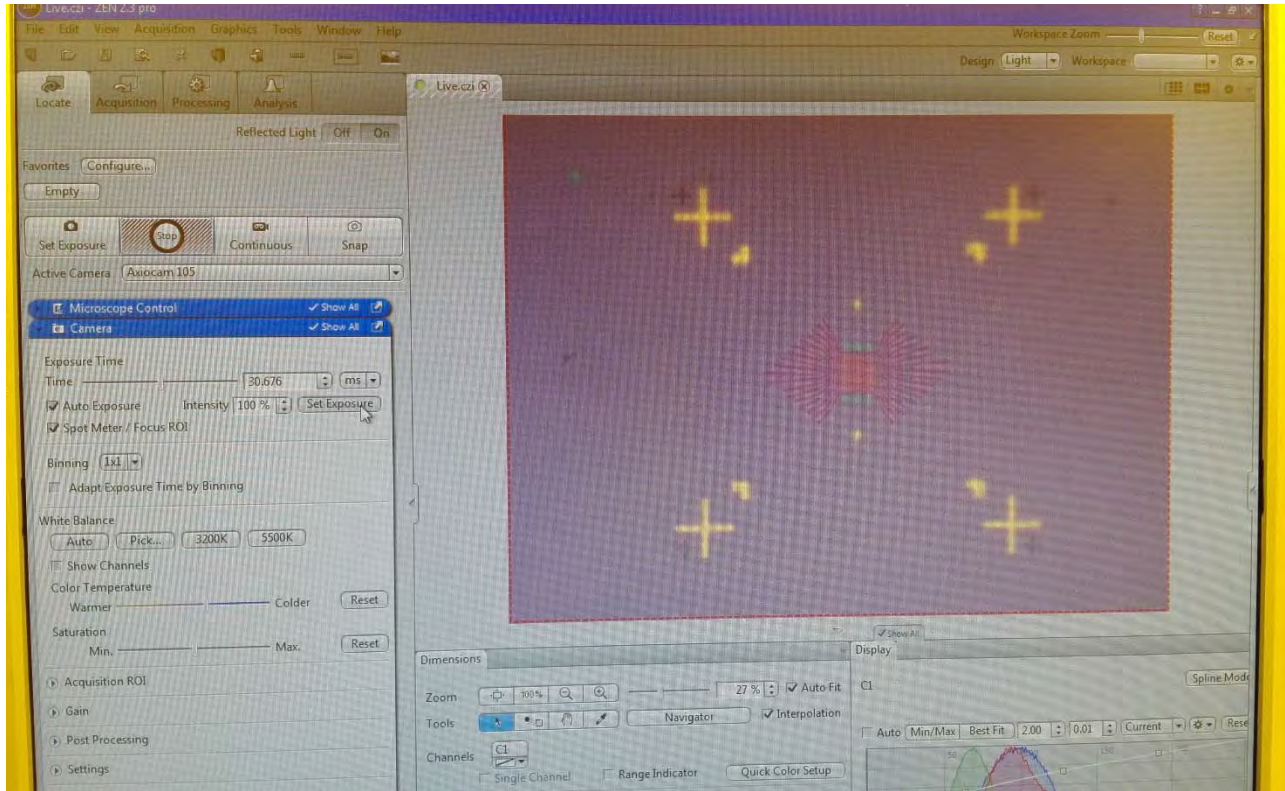


ZEN imaging software for ZEISS optical microscope

(updated: 04-04-2018)



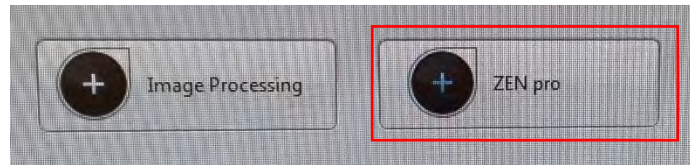
ZEN software is used for imaging on the ZEISS M1m optical microscope. This user guide will give you a basic procedure on how to optimize imaging as well as saving and measurement options.

Instructions for ZEN software

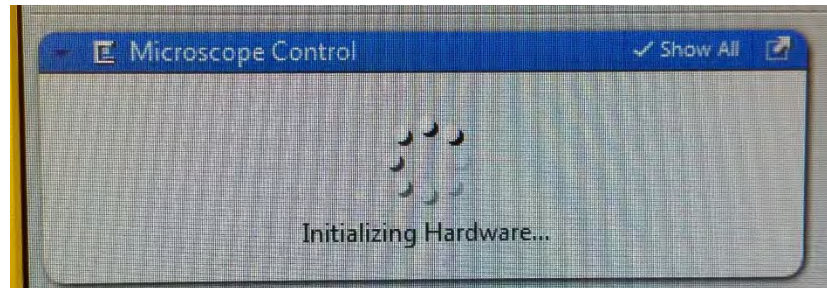
- 1) Log onto Optical microscope through FOM, the PC monitor will be powered on.
- 2) Turn on the power for the microscope and place samples on the stage. Focus on the sample through eyepieces.
- 3) Double click 'ZEN' to open the software.



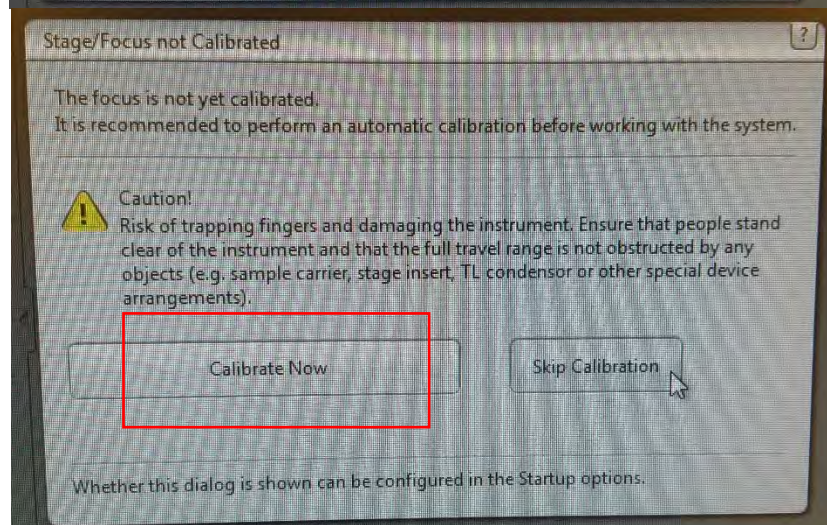
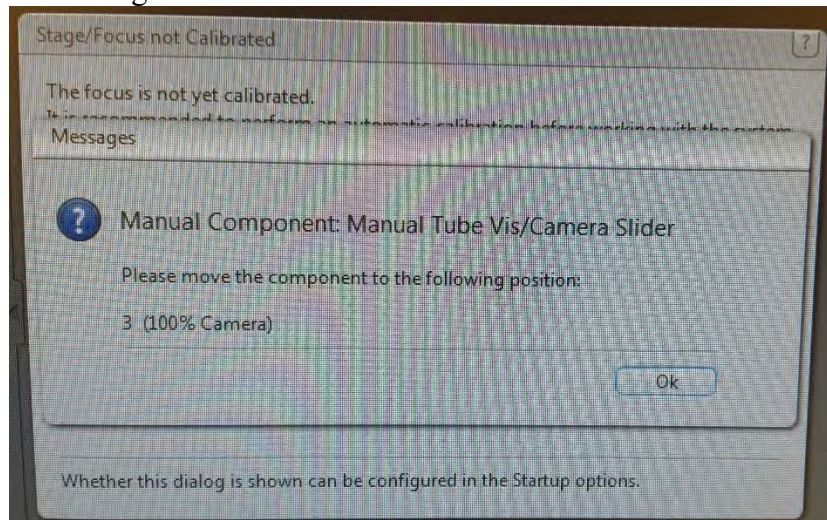
- 4) Select 'ZEN Pro' for imaging purpose. 'Image Processing' is used for later when you already have image files.



- 5) Once the software is open, it will take about 20 seconds to initialize, wait until the initialization done.

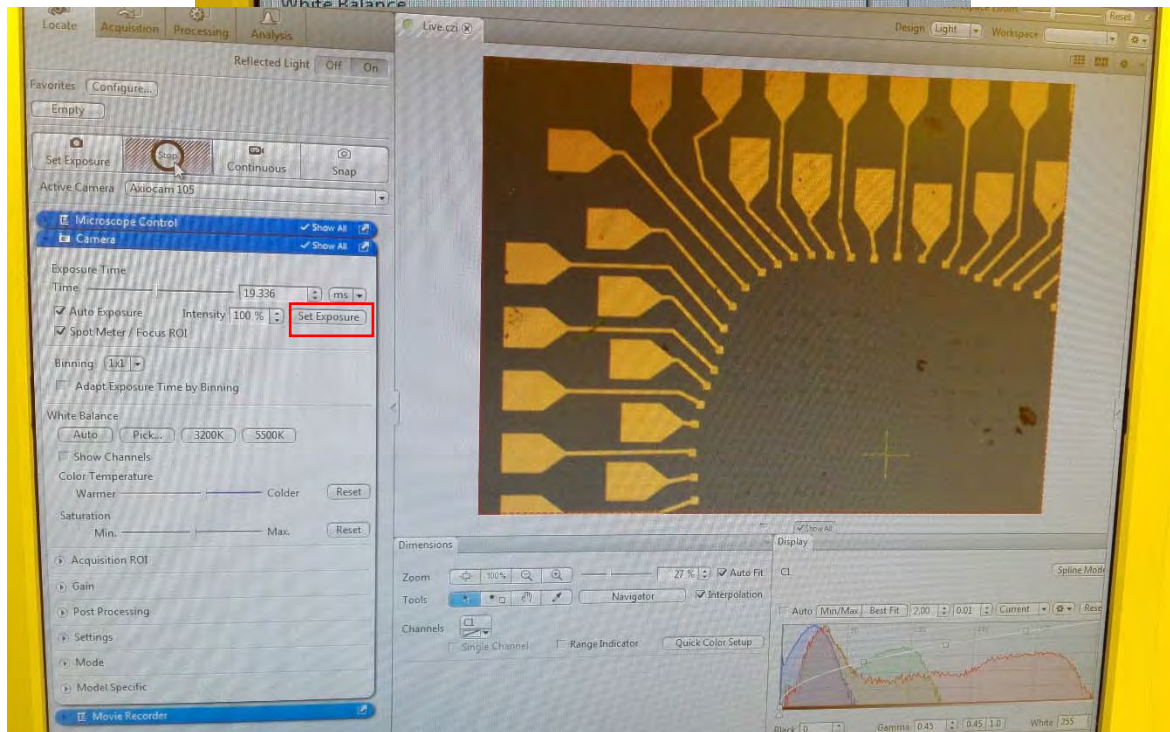
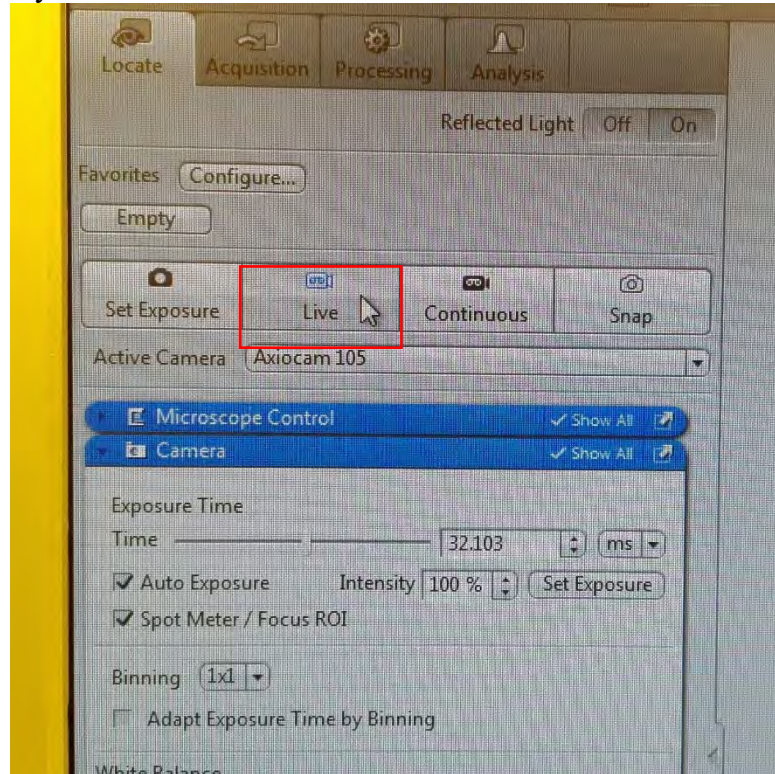


- 6) Then it will pop up the following messages; click 'OK' to proceed, followed by clicking 'calibrate now' for stage/focus calibration.



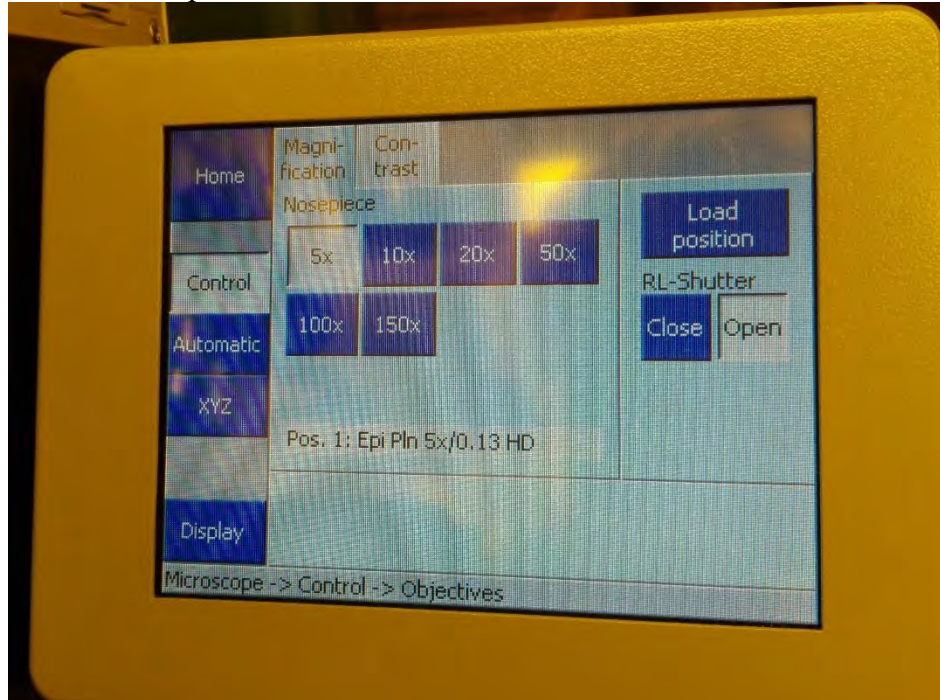
- 7) After stage calibration finished, it will pop up the software interface panel. Click 'live' to show up the image on the monitor.

- 8) Adjust focus through the microscope and click 'set Exposure' to get the best exposure time and intensity.

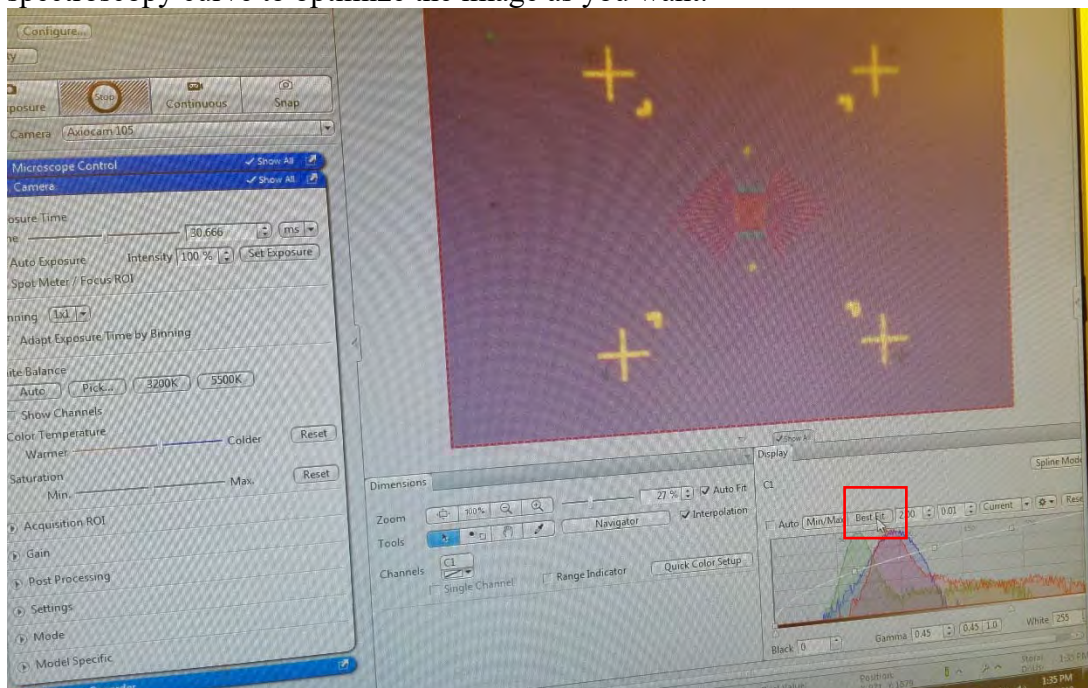


- 9) Now you can switch the magnification through the microscope control panel, followed by focus adjustment. Note that, when switch to a different mag, click 'set exposure' again.

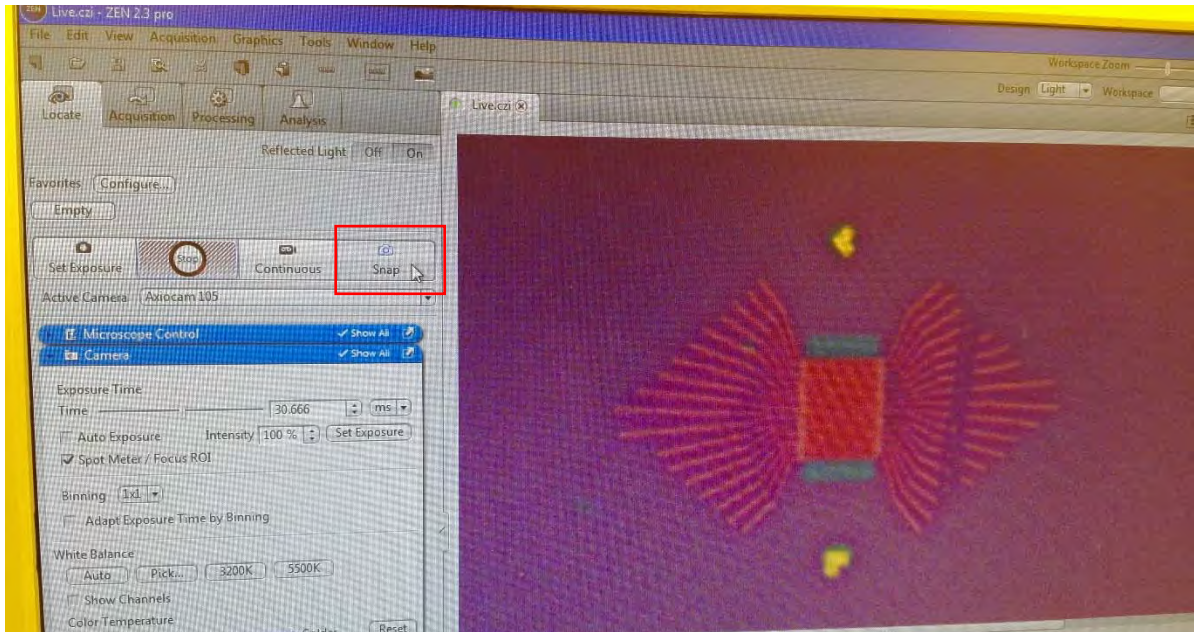
To get a best focusing, you can also use the wheel on the mouse to zoom-in the image and reach a best focal point.



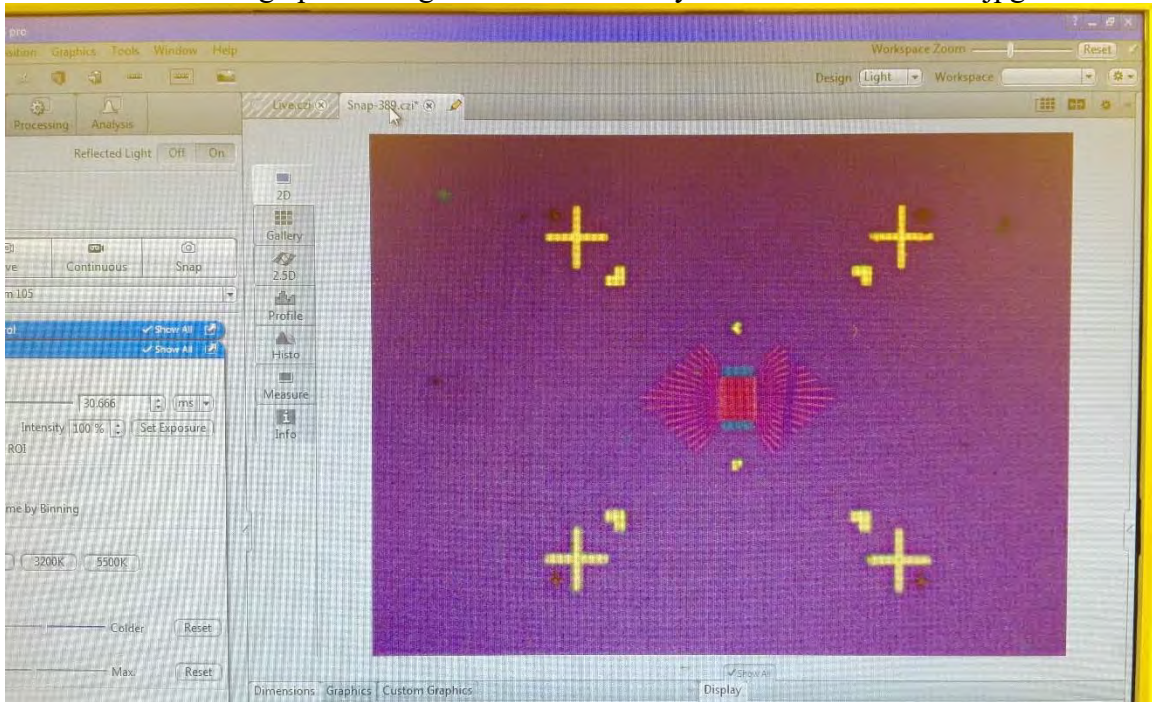
10) After focus well, click on 'Best Fit' to get a best image. You can also tweak the spectroscopy curve to optimize the image as you want.



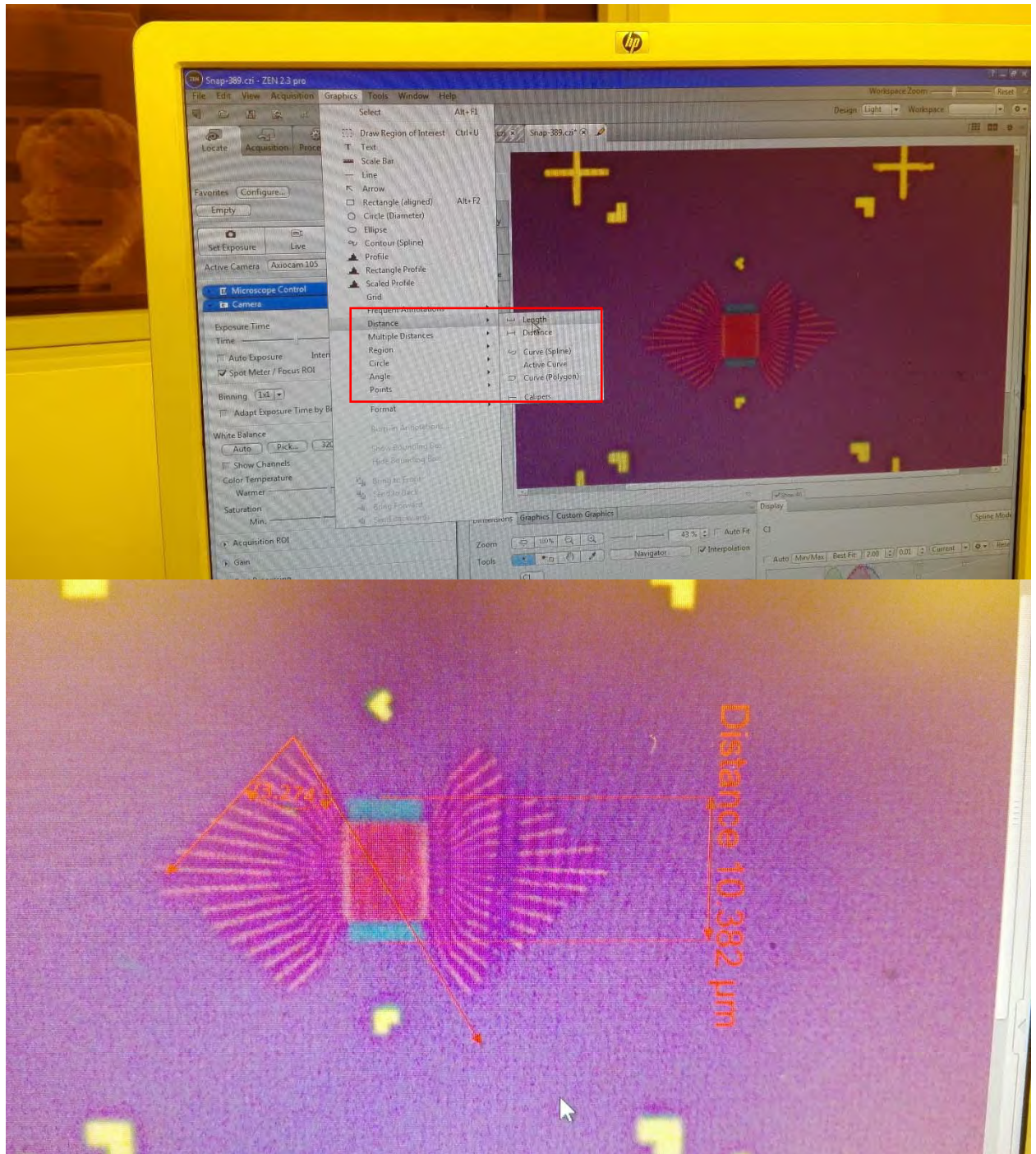
11) After you get an optimized image, click on 'snap' for imaging.



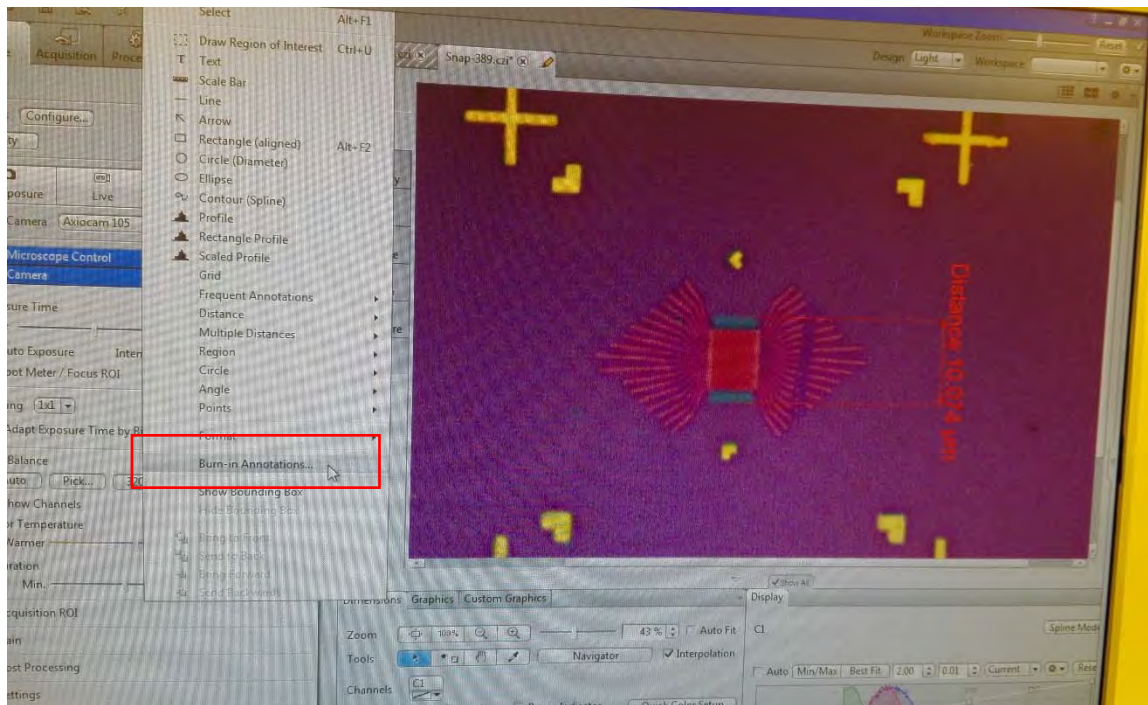
- 12) The image will be saved as .dzi file automatically, which can be loaded into the software later for further image processing. Here I will show you how to save it into .jpg or .tif file.



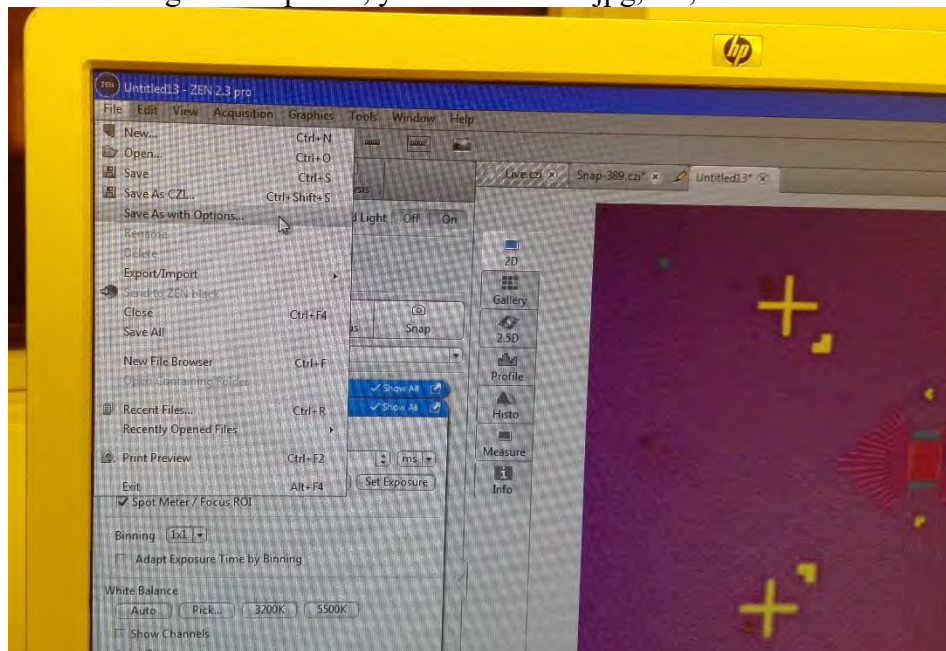
- 13) Before save it into jpg/tif file, you can do measurement on the image. Click Graphics/Distance/Length to measure point2point distance, or click 'region' to measure the area size, click 'angle' to measure an angle between two lines, etc...

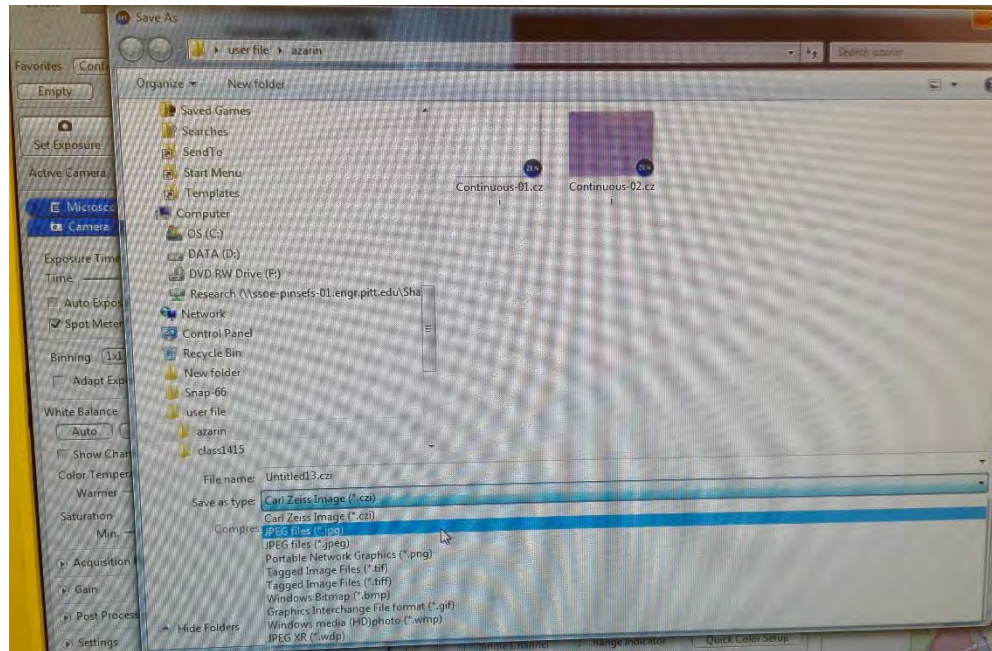


- 14) After you get the measurements, you can select Graphics/Burn-in Annotations to burn the measurements annotations into the image.



15) Finally save the image with options, you can save as .jpg, .tif, or other formats as you like.





For further detailed instructions on imaging and image processing, please read the manual on the pc: 'AxioVision Microscope manual'.