

Leica Camera Scale Bar Calibration

This protocol is designed to walk someone through calibration of the Leica EC3 camera with Leica Acquire Version 3.4 (on a Mac) to display an accurate scale bar. This protocol takes approximately 15 minutes to calibrate 2 objectives and is derived from the Leica online summaries.

SET UP ~ 2 mins

1. Attach a Leica Camera to the microscope; connect the camera to the Mac computer.
2. Open Leica Acquire.
3. Align a ruler, centered in the field of view, on the microscope stage, and turn on the microscope light.

CALIBRATION ~ 3 min

1. In Leica Acquire, check to make sure that the image seen through the microscope is visible in Live view (as opposed to Browse view).
2. Open the calibration settings by either a) right clicking on the live image and selecting “Edit Calibrate Setting”, or b) choosing File > Preferences > General.
3. Click on the “New” button in the calibration panel to add a new calibration (objective and camera). If you’d like to edit an existing calibration, right click on the settings you wish to edit.
4. Under “Name”, designate the camera (Leica EC3), microscope model, and objective being used.
5. Right click on the Length measurement to bring up an adjustable scale bar on the live image screen.
6. Adjust the scale bar to appropriate dimensions and units according to the ruler.
7. Close the window when calibration is complete for all desired magnification levels.

CONFIRM CALIBRATION

1. In the left hand side of the live view, ensure the “Calibrate” box is checked and set to the correct calibration setting for the objective in use.
2. Acquire image and show scale bar to see if it is correct in comparison with the ruler photographed.

Revision History:

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References:

[Leica Acquire User Manual 3.3](#)

