

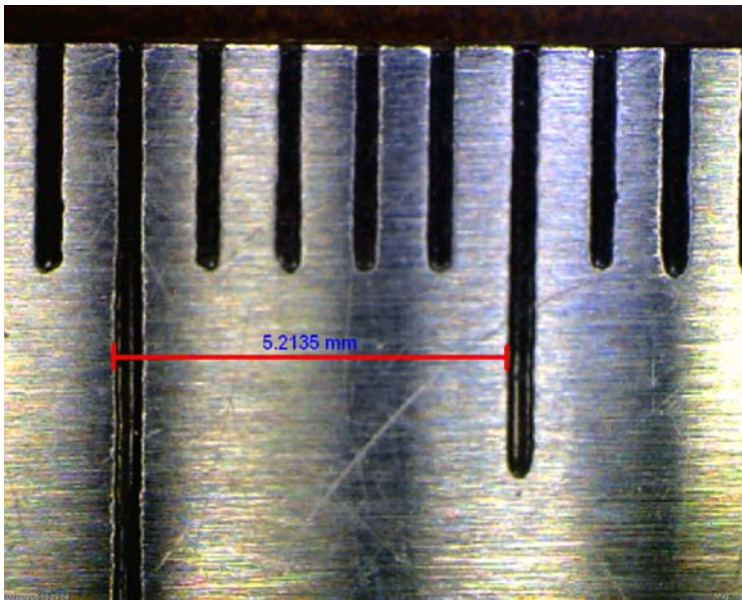
How to accurately calibrate the AM313/413 Dino-Lite measurement function

1. Choose a magnification that gives an image, of the specimens to be measured, that is at least 10% or more of the width of the DinoCapture image window size.
2. Enter the magnification from the Dino-Lite focus wheel into the program Mag. box, in the upper right hand corner of the measurements window.
3. Remove the specimen to be measured and replace it with a steel rule or other standard. Do a measurement by striking a line across several of the ruler marks.
4. The dimension displayed on the screen will probably not agree exactly with the actual length of the ruler marks. Use the following simple formula to get the corrected magnification to re-enter into the Mag. box.

$$Mag_{corrected} = \left(\frac{l_m}{l_a} \right) \times Mag_{dial} \quad \text{where } l_m = \text{length measured, } l_a = \text{actual length, } Mag_{dial} = \text{magnification from DinoLite focus dial}$$

5. The software is now calibrated as accurately as your standard, and your accuracy in placing your measurement line on the photograph, for that magnification setting of the DinoLite.

EXAMPLE:

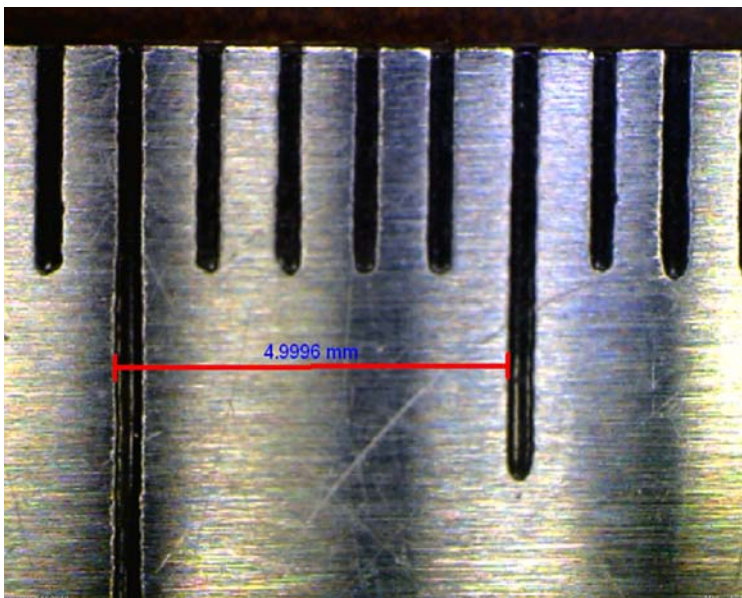


50X, from the focus dial, is entered into the Mag. box. Then make measurement. The result is 5.2135, which is only accurate to ~ 4%.

Make the simple calculation:

$$\begin{aligned} Mag_{corrected} &= \left(\frac{l_m}{l_a} \right) \times Mag_{dial} \\ Mag_{corrected} &= \left(\frac{5.2135}{5.000} \right) \times 50 \\ Mag_{corrected} &= 52.135 \end{aligned}$$

Enter 52.135 into the Mag. box and re-measure. Result is accurate to ~ 0.1%.



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