Procedure for Calibrating Camera When Switching from Thick to Thin Needle (Pg. 11-14 DSA User Manual)

Sarfaraz Patel and Gabe Manzo

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1. Place glass slide on sample table.
2. Move sample table upward until sample appears in lower region of the camera image.
3. Move the needle so that it is centered in the picture and just above the sample. May need to adjust camera inclination to achieve this.
4. Set camera zoom so image of needle occupies max 10% of the frame.
5. Adjust camera focus so edges of needle are as sharp as possible. Use focus wizard button for assistance.
6. Place drop in the sample so that drop occupies 2/3 of image’s width.
7. Adjust camera inclination and lower sample table so that only the drop appears in the center of the image.
8. Fit drop with curve and observe measured contact angle. If contact angle makes sense, the camera is calibrated properly.