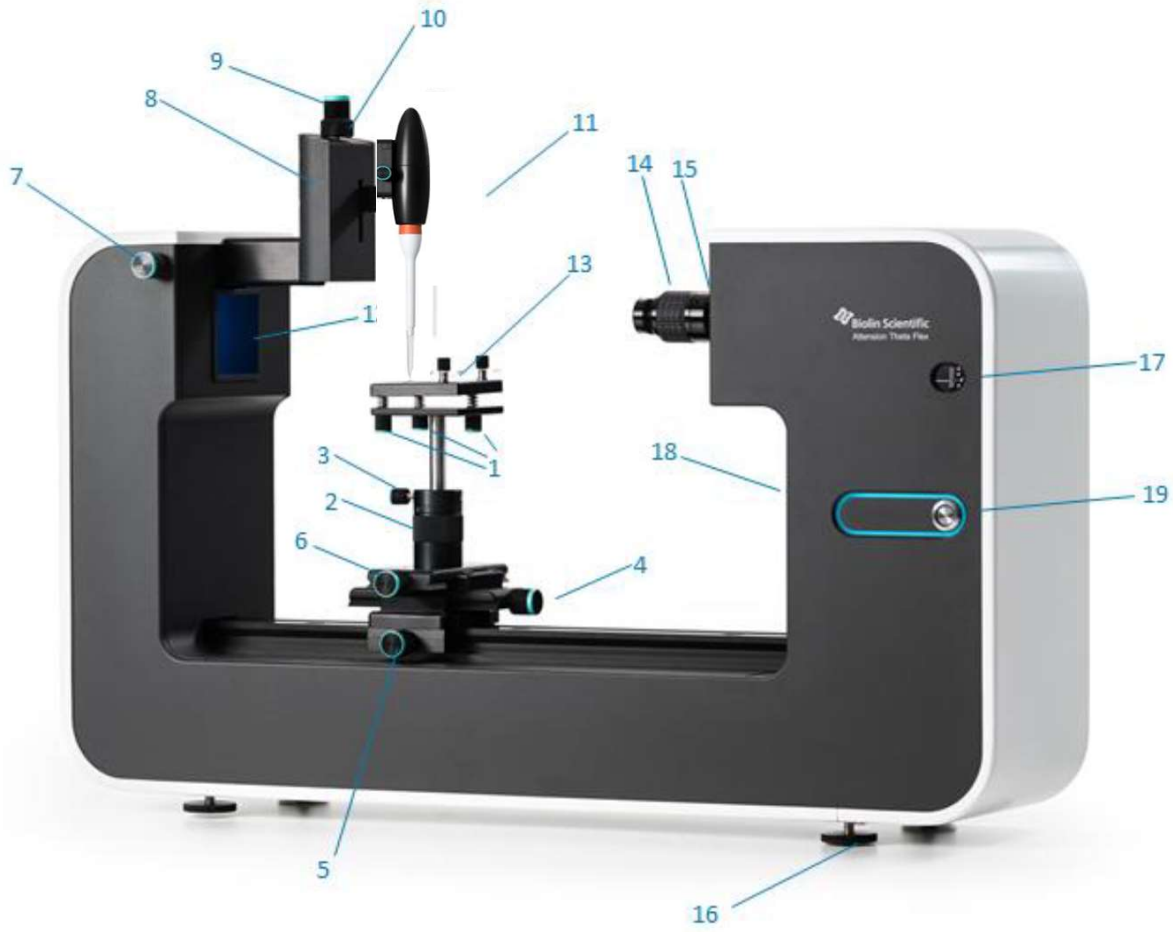
Surface Tension (Pendant drop) measurement



1) Stage level adjustment
2) Stage height adjustment
3) Stage height lock — Do Not change
4) Stage linear adjustment
5) Stage rail lock
6) Stage lateral adjustment
7) Syringe lateral adjustment
8) Liquid dispenser holder
9) Syringe height adjustment
10) Manual dispenser adjustment
11) Liquid Automatic Dispenser
12) LED light source
13) Sample stage with sample attachment clips
14) Camera lens focus adjustment → Do Not Change Focus ! (move stage along light line instead)
15) Camera lens zoom adjustment
16) Level adjustment feet
17) Camera tilt indicator
18) Camera tilt adjustment
19) Power button and status indicator light

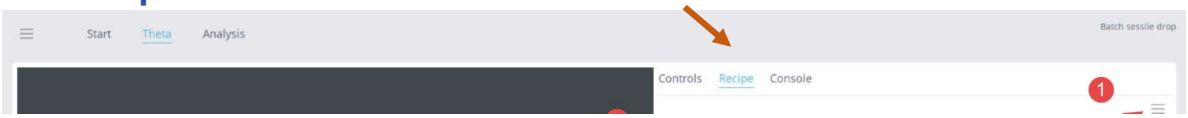
Performing Surface Tension (Pendant drop) measurement

- Log On.

- Start Instrument

- Click open OA One Attention Software
- Click Select Pendant Drop (for Surface Tension Measurement)

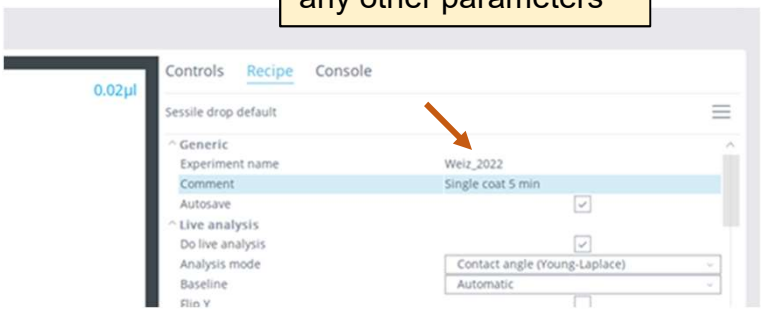
- Click **Recipe**



- (In case you have a personal method load it manually).

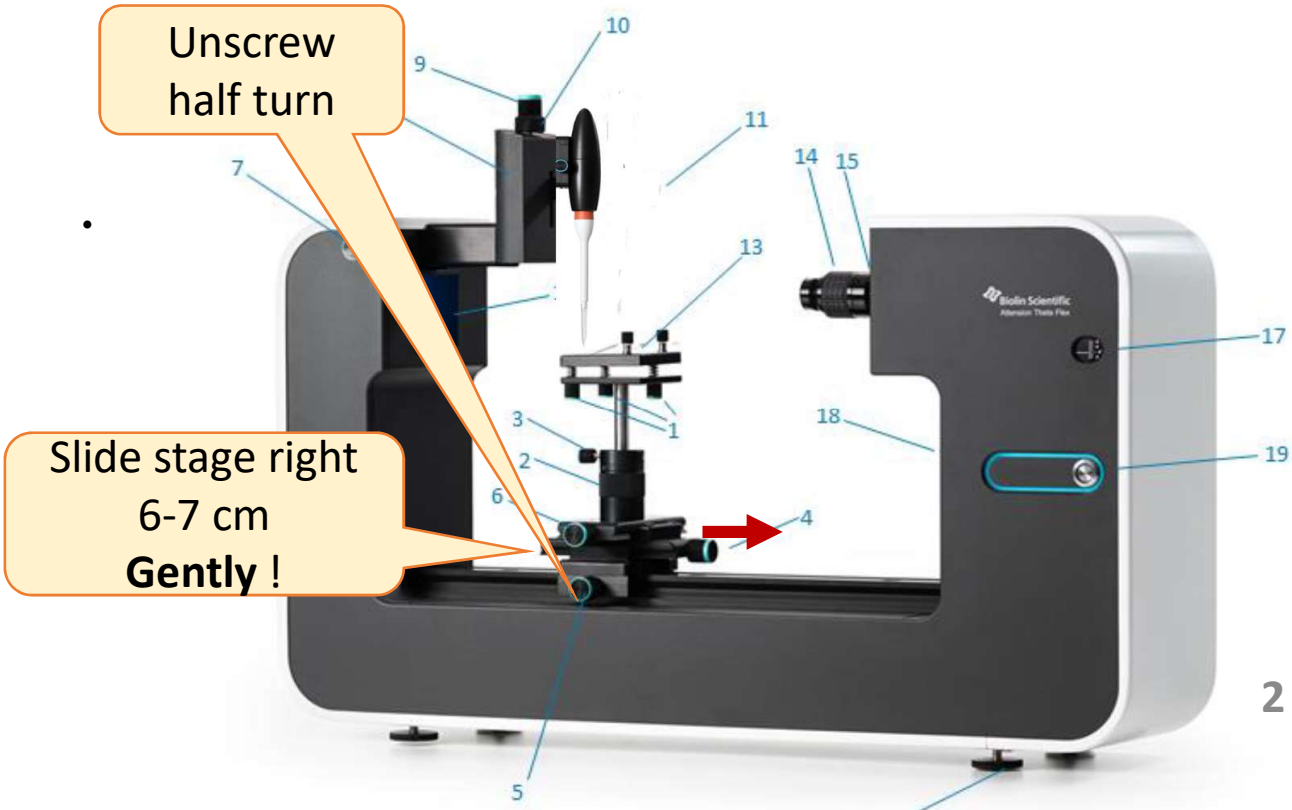
- Fill in your (Sample/Experiment; ID) name.
- Fill Comment. (optional)

Please do not change - any other parameters



- **Filling the Tip with solvent**: If Needed.

- On the Instrument Loosen the sliding stage screw HALF a turn,
- and than slide the stage gently, to the right about 6-7- cm.

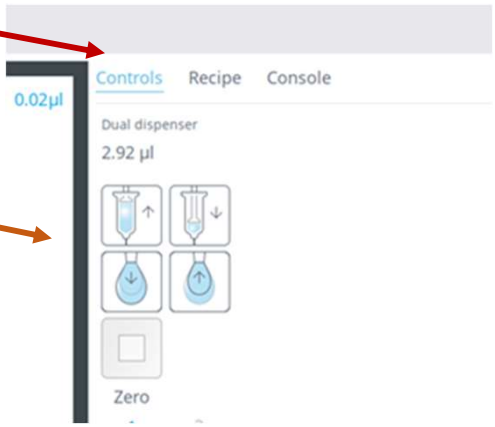


Filling the Tip with sample

- Replace Tip.
- Click **Controls**
- Click Dispense.
- Hold a Beaker with Pure Water below the tip

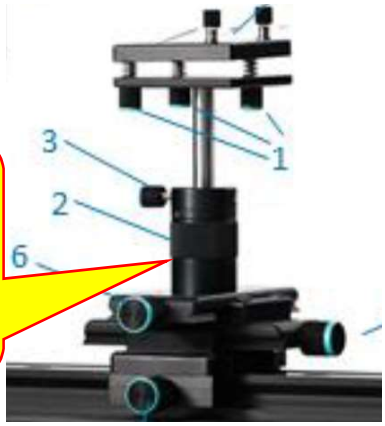
.

- Click Fill, wait till full.
- (ul volume steady)
- Click Zero when Tip full.



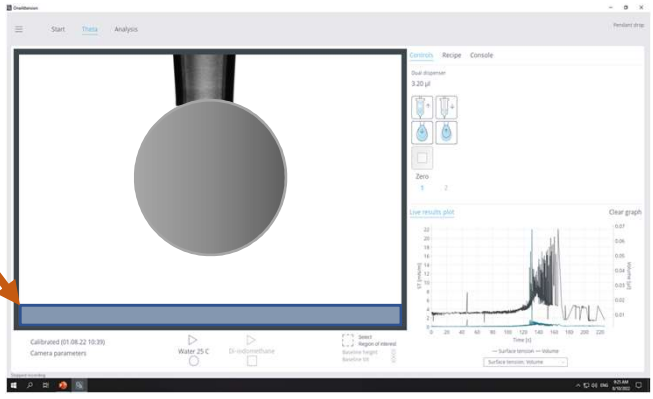
- Place a tissue or paper on the stage.
  (In order to protect the stage from your sample).

- Slide the stage back under the tip.



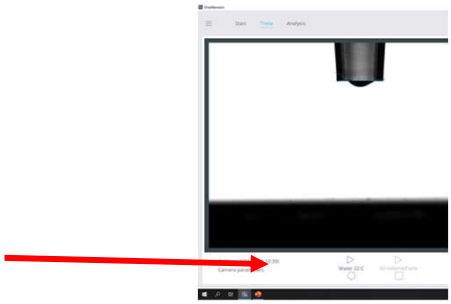
- Lower the Hight of the stage using the Rotating collar on the stage support.
  Until it is barely visible on the image.
  (To clear the space for your drop to hang.)

  (Do Not use holding Screw 3)



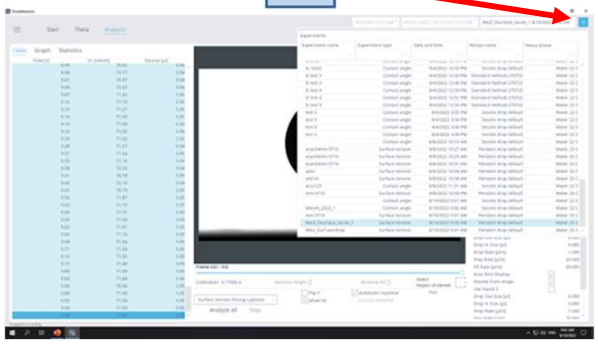
Running the experiment

- To Start the experiment.
  Click the small triangle.

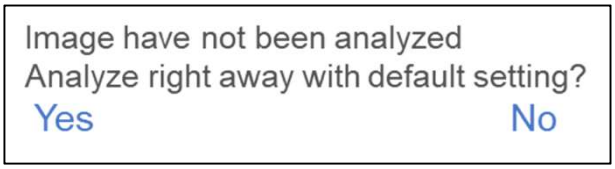


- The system will start to build the drop automatically.
  you get no indication But the Blue light
  around the power button will circulate.

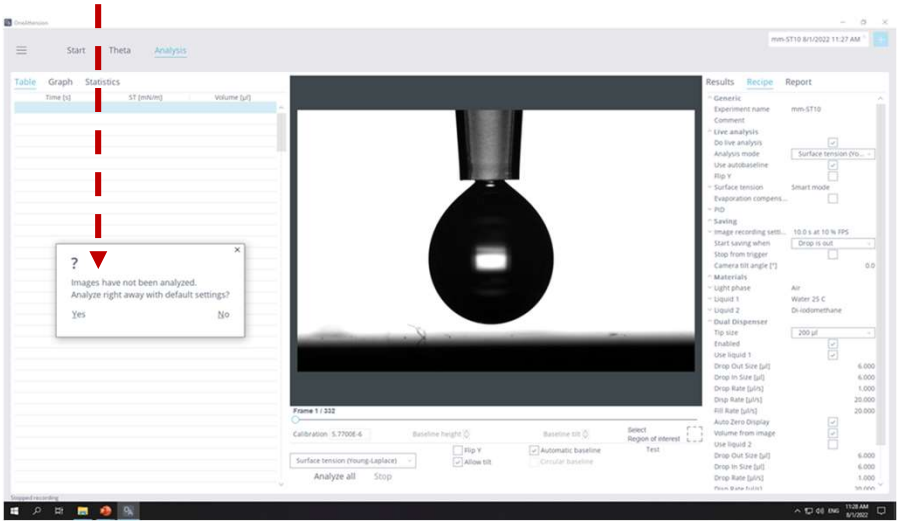
- After about 20-30 sec. the light around the power will stop circulating.
- Click Analysis.
- If a list of your experiments will not appear click the + on the top right .



- In the window that opens,
  double click your experiment file.
- Your experiment will open.
- A note will display on the left side of the image.

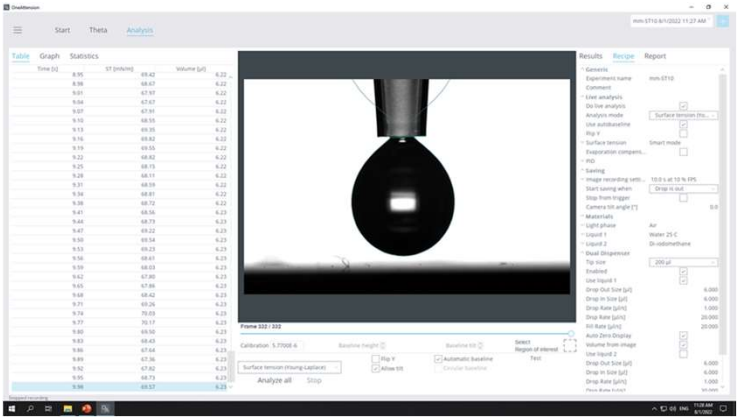


- Click Yes.

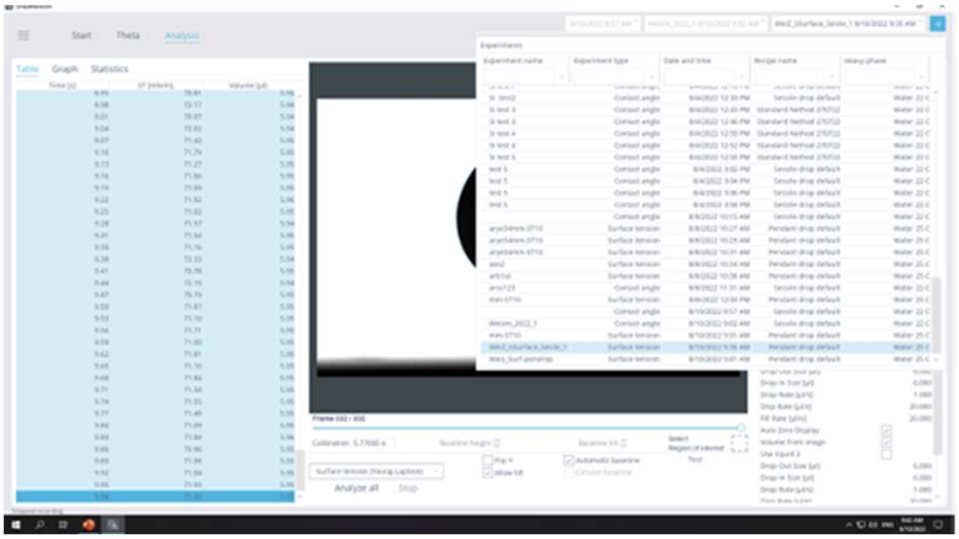


Results and Report

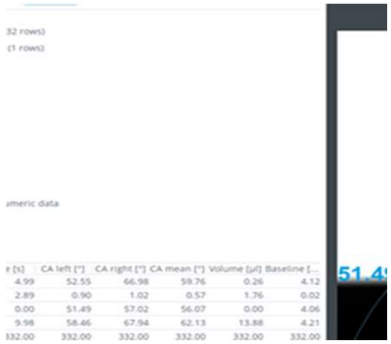
- And the results will be calculated.



- Wait for the last row to turn green. (You can click any table to select and save it as xlsx file).



- You can click Statistics to display calculations and export it. (It does not appear on the report).



- Click REPORT.
- Select

  Export info; Calculated results; Theta image; Data table. (Statistics are not reported).

- Click Generate report

Saving your data.

- Save in your directory in:
  Desktop / Contact angle Users / **You**r directory.
- It opens automatically for you.
- **Just click Save**.
- It is saved in your documents with the Experiment name.