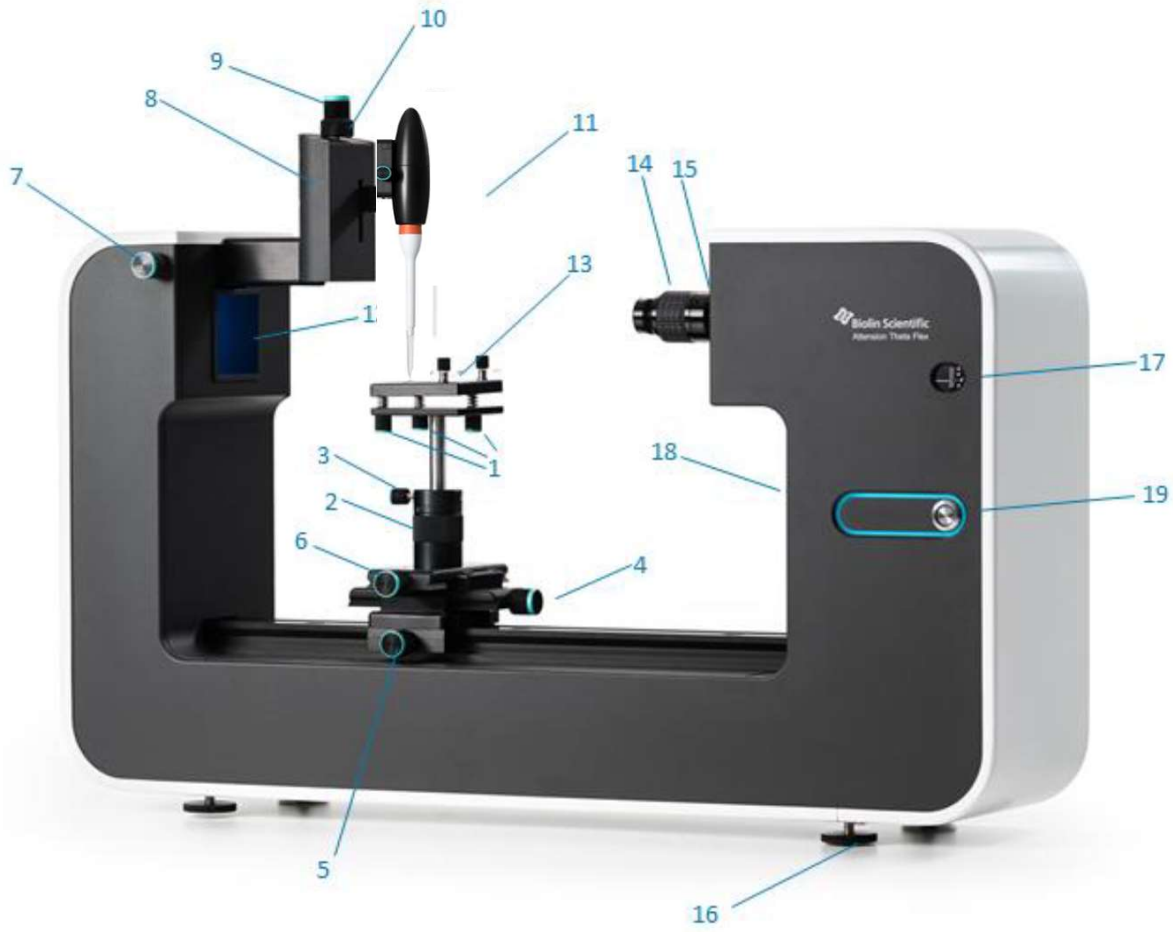
# Contact Angle (Sessile Drop) measurement



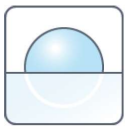

1) Stage level adjustment
2) Stage height adjustment
3) Stage height lock — Do Not change
4) Stage linear adjustment
5) Stage rail lock
6) Stage lateral adjustment
7) Syringe lateral adjustment
8) Liquid dispenser holder
9) Syringe height adjustment
10) Manual dispenser adjustment
11) Liquid Automatic 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 Contact Angle (Sessile Drop) measurement

- Log On.
- Start Instrument

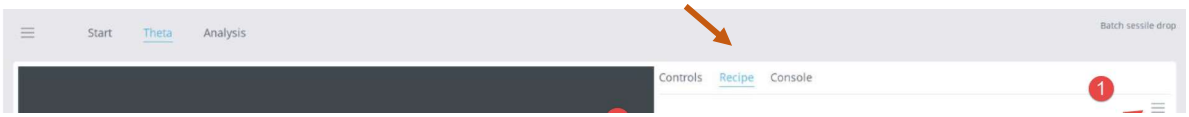
- Click open OA One Attention Software


- Click Select Sessile Drop (for Contact Angle Measurement



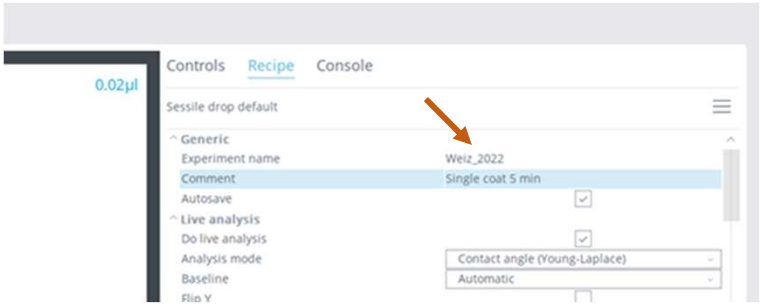
Sessile drop experiment

- Click **Recipe**



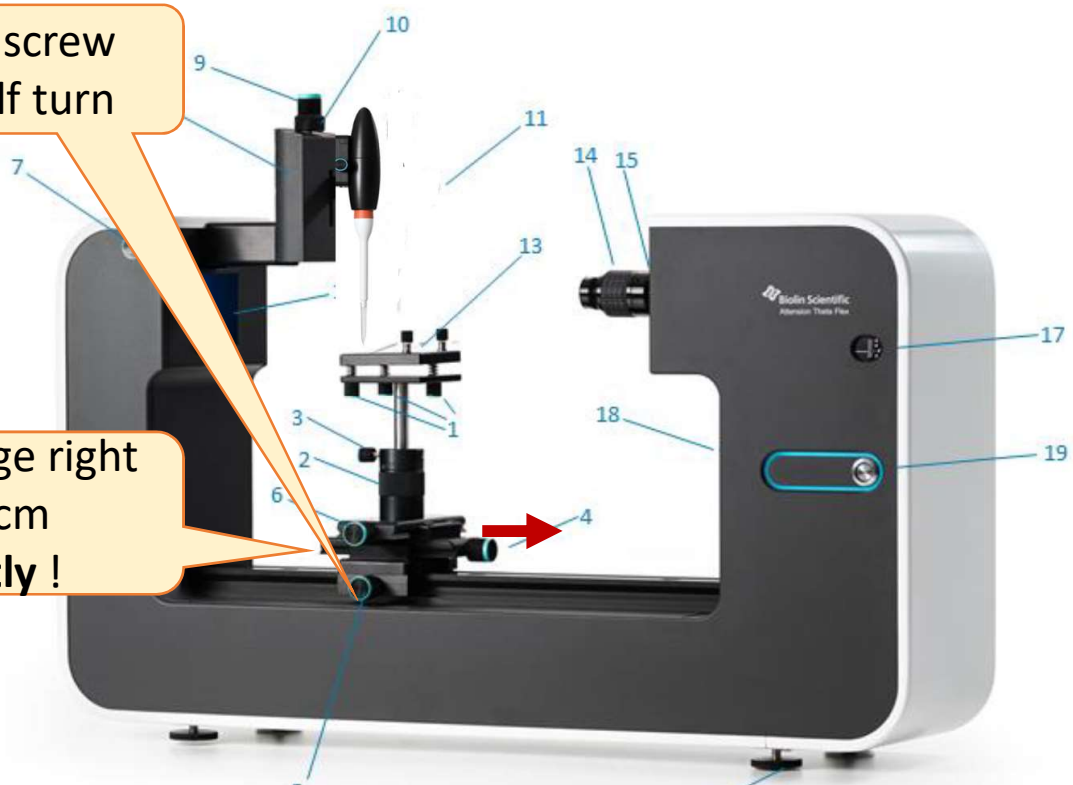

- ( In case you have a personal method load it manually).
- Fill in your (Sample/Experiment; ID) name.
- Fill Comment. (optional)

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.

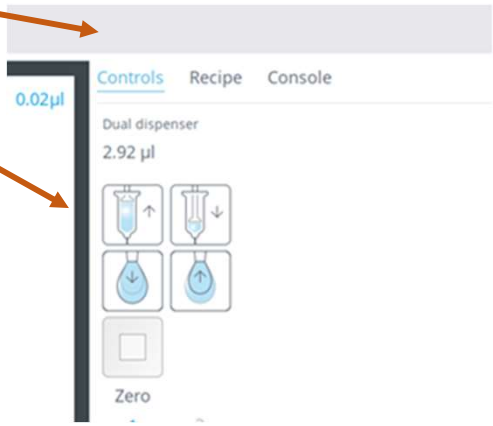
Unscrew half turn




Slide stage right 6-7 cm **Gently** !

# Filling the Tip with solvent

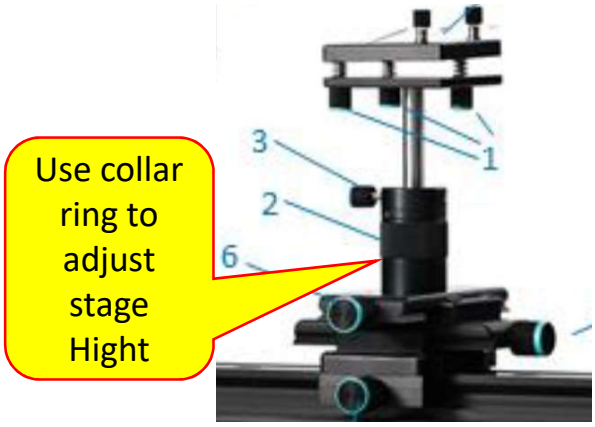
- Click **Controls**
- Click Dispense.
- Hold a Beaker with Pure Water below the tip
.
- Click Fill, wait till full.
- (ul volume steady)
- Click Zero when Tip full.




- Slide the stage back under the tip.
- Adjust the Hight if needed.

- Place your material on the stage
- (try to keep the straight end
- parallel to the stage).

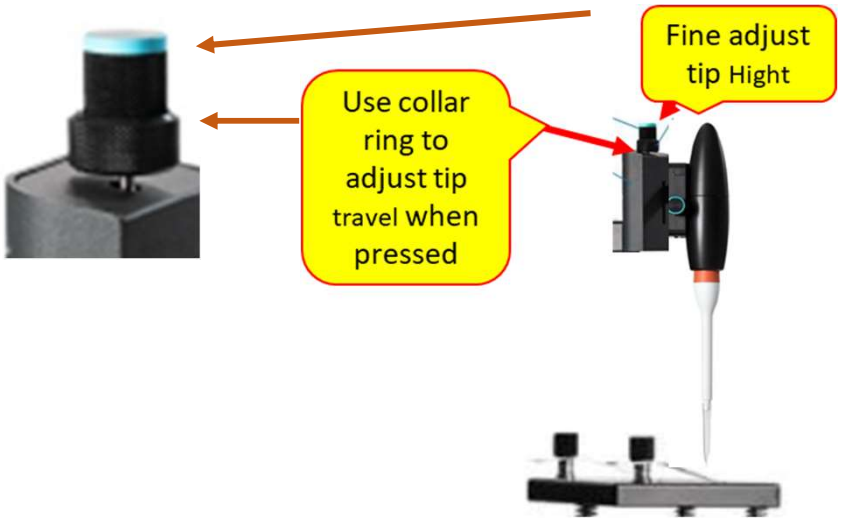
- Adjust the Hight of the stage using the rotating collar on the stage support. Your test material should be Adjusted to approx. 7 mm below the tip. (Do Not use holding Screw 3 )



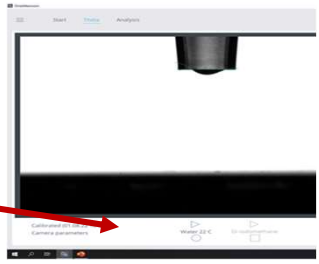

- Place your material on the stage (try to keep the straight end parallel to the stage).

- Adjust the Tip Hight using the top screw to 6-7 mm above your material.

- Only if needed, adjust the travel of the dispenser using the collar ring 10 To a distance that will allow only the drop bottom, to touch your material. When pressed approx. 3-4mm.

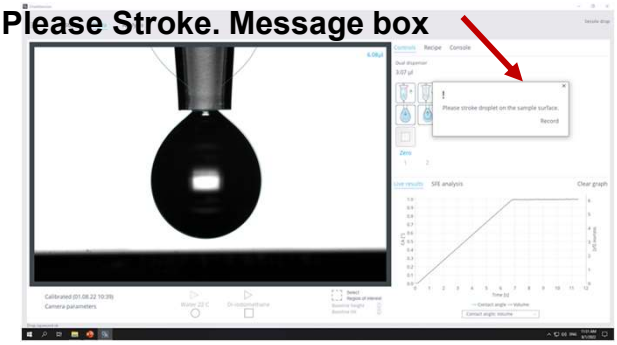


# Running the experiment



- Click the small Triangle below the picture -to start.
  (A drop will be dispensed **automatically**.)

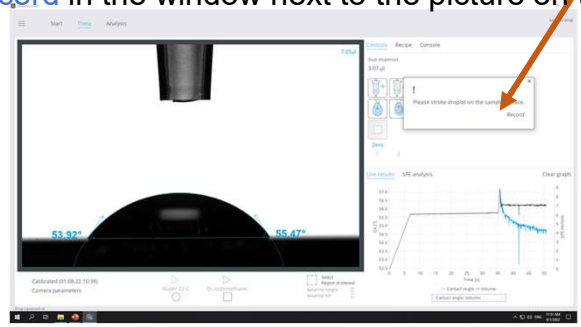
- Wait for the **Please Stroke. Message box**



- Than press downwards the button on the mount of the dispenser
  to deposit the drop on the surface.

- Wait few seconds, assure that the contact angle displayed, is reasonable,
- Only in case fucus is poor adjust with screw 4 on the stage (Please do not touch the lens)


- Press Record in the window next to the picture on the top right.



- Wait till blue light by the power button stops circulating.

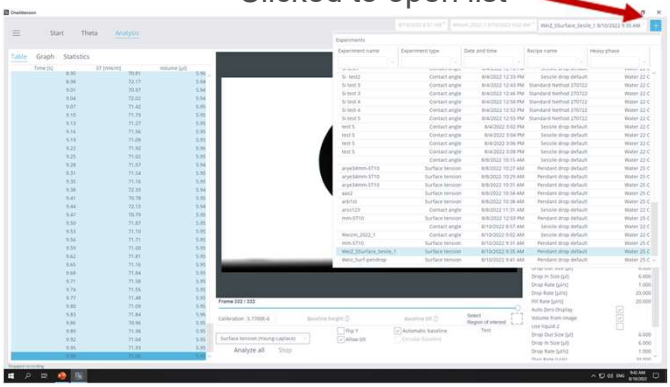
- Click Analysis select your file,

- 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.

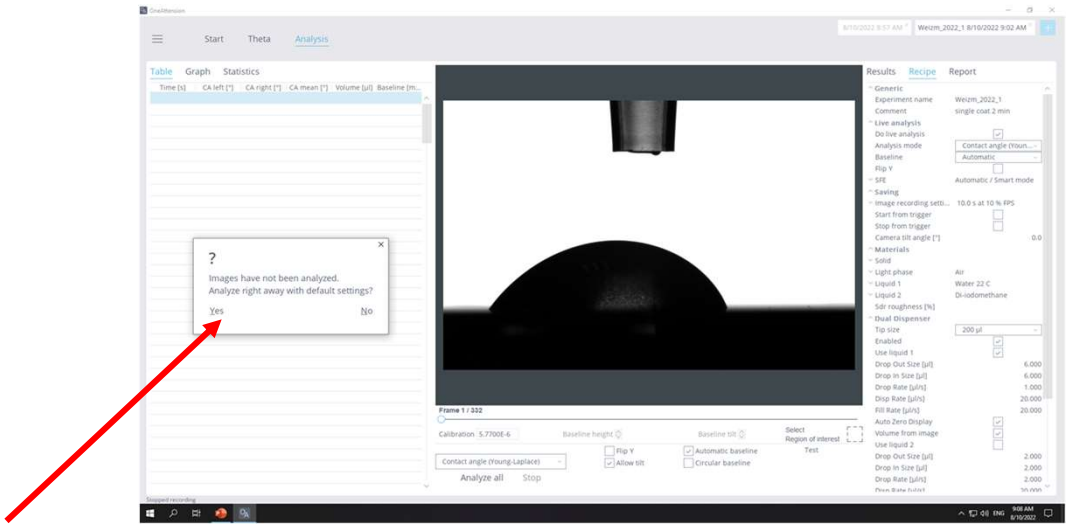
# Results and Report

Clicked to open list



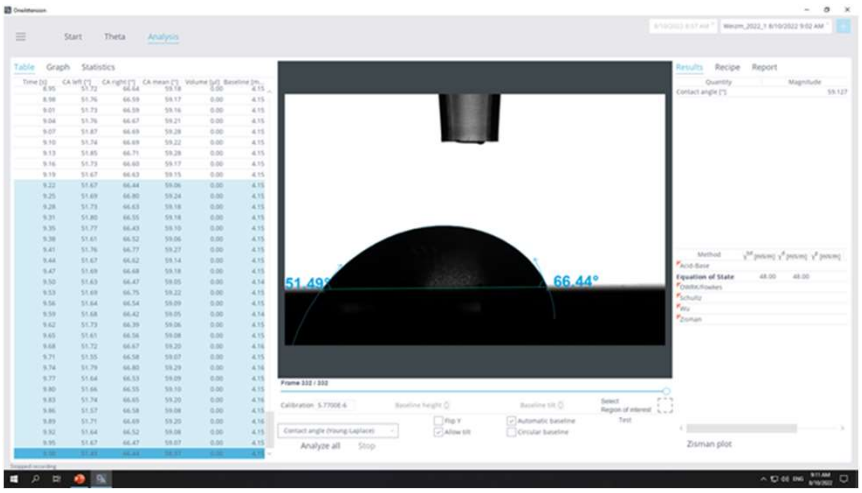
- And double Click your experiment file.

- Your experiment  window will open.



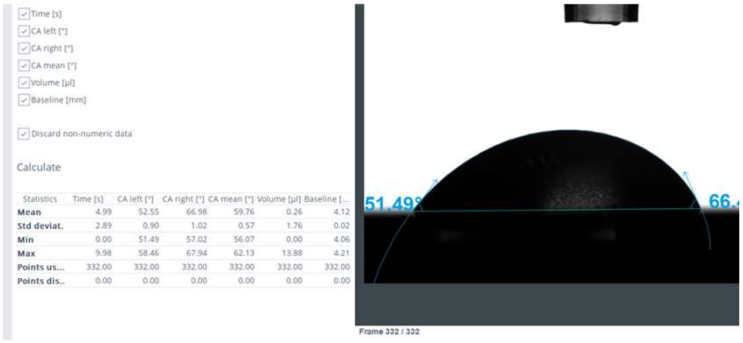

- Click Yes to analyze

- Data will be calculated.




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

- You can click Statistics to display calculations and select export.




- When done chose Report
- select:
  Export info: select Calculated results; Theta image; Data table.

- 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 will be saved as the experiment name)

- It is saved in your documents with the Experiment name.