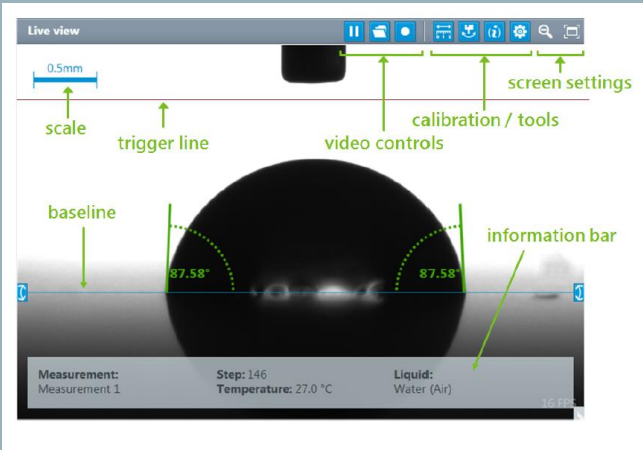


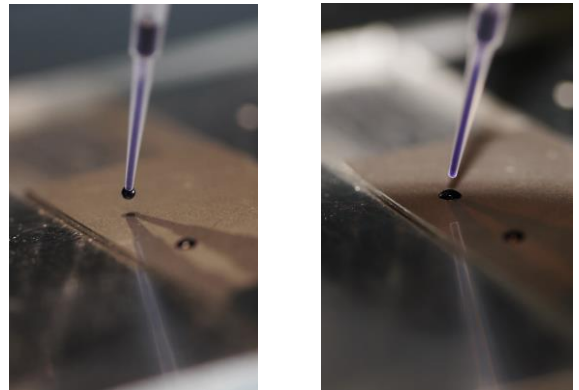
Drop Shape Analysis KRÜSS DSA 100E With Top View Analyser KRÜSS TVA 100

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Duration of experiment

- app. 30 minutes per solid probes' free surface energy evaluation



Deposition of droplet with TVA

Measuring principle

- Optical measurement of the droplet shape as pendant drop and sessile drop on surfaces to determine the contact angle at the two/three phase point.
- Measuring of the static and dynamic contact angle (advancing and receding angle)

Prospects

- Determination of the surface tension of liquids at different gas and fluid surrounding.
- Determination of contact angle and wetting behavior of different solid modifications and liquids at temperatures < 90 °C.
- Evaluation of free surface energy, based on literature evaluation methods, such as Acid-Base ,OWRK or extended Fowkes method.
- Evaluation
 - Free surface energy and roughness
 - Wetting envelope
 - Surface mapping

Benefits

- Fast characterization of wetting behavior and free surface energy
- High speed camera for high precision measurement
- Software aided evaluation with ADVANCE
- 5 slots for test liquids in DSA / no limits for the TVA

Effective range

- 20 °C
- Liquid volume DSA: 5 - 10 µl
- Liquid volume TVA: 0,5 or 1 µl
- Max. contact angle TVA: 77°
- Max. sample dimensions (l x w x h): 150 mm x 150 mm x 50 mm

- Evaluation possible on even and formed or curved surfaces
- With TVA even in Dimples and cavities



Krüß DSA 100 Expert