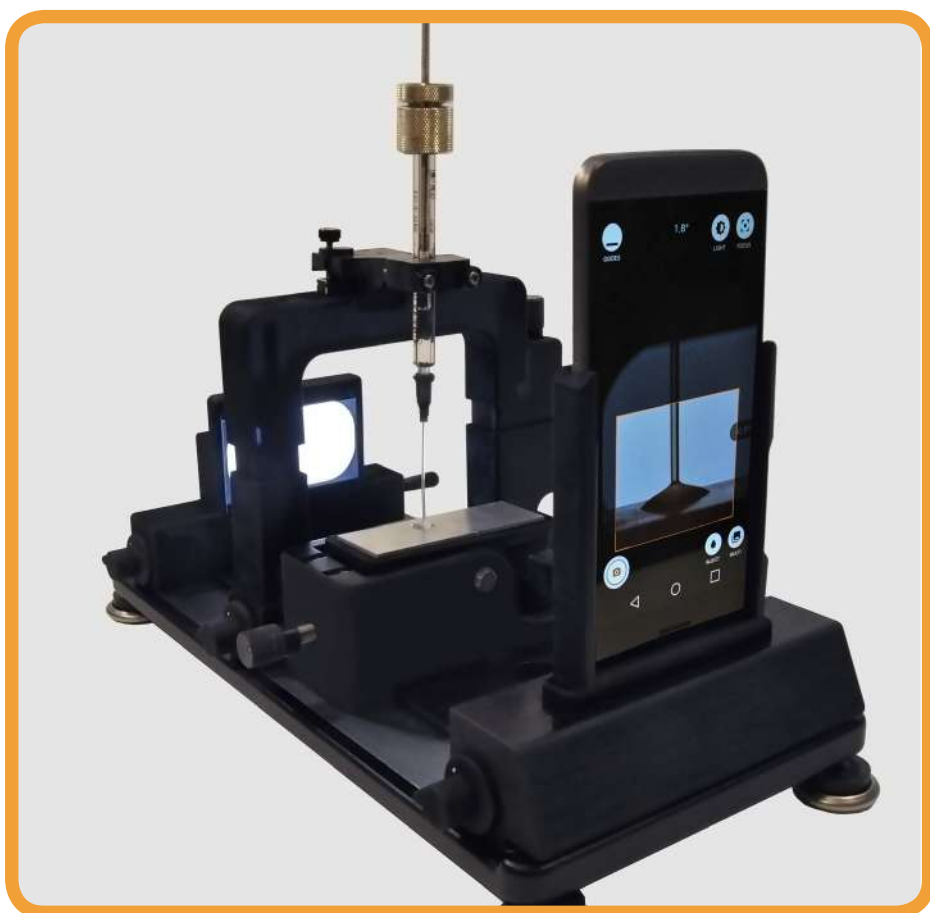


# Dropometer

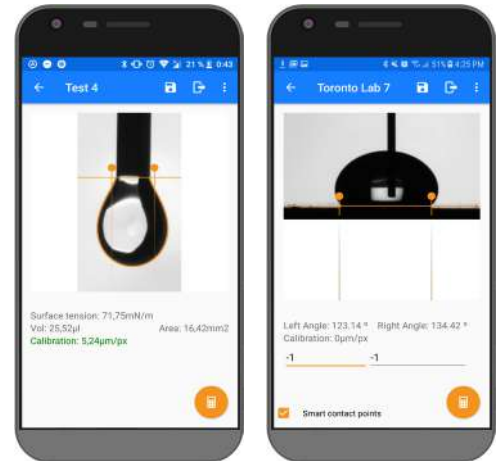
Measuring surface tension and contact angle made easy using smartphone technology








## HOW IT WORKS

Running on smartphone technology all your surface tensiometry (e.g. surface tension and contact angle) needs are met.

- 1 Insert the smartphone in the hardware.
- 2 Create your droplet in the configuration of your interest.
- 3 Run the app and measure the property of interest.



## WHAT IT MEASURES

-  **Sessile**  
Contact angle in static and dynamic modes
-  **Pendant**  
Surface tension in static and dynamic modes
-  **Tilted Plate**  
Contact angle and sliding angle
-  **Energy**  
Solid surface free energy
-  **Constraint**  
Surface tension in constrain drop configuration

## TWO VERSIONS AVAILABLE

The Dropometer is available in a fully motorized automatic version or a manual version.



## ACCURATE & PRECISE

With scientifically validated accuracy and precision, Dropometer rivals the most advanced instruments on the market.

## CONNECTED

Reap the benefits from the full connectivity of your smartphone. All data can be transferred to the Cloud, emailed or stored onboard, and information for measurements can be derived from the internet.

## PORTABLE

Dropometer is easily transportable and suitable for field measurements. It is battery operated, and light.

## MODULAR

The full Dropometer kit consists of **8 different modules** which can be purchased individually and put together in various ways to measure different surface properties. A budget friendly feature allowing for buying what you need.

Whether you choose the automatic, manual or a combination of both versions; the Dropometer is easy to customize to suit your diverse needs.

**SMART INNOVATION**  
STARTS HERE >>



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Products specifications	Sessile	Energy	Tilted	Pendant
<b>Measurement</b>				
Range	0°-175°	Up to 100mN/m	0°-175°	Up to 100mN/m
Resolution	0.01°	0.01mN/m	0.01°	0.01mN/m
Accuracy	0.35°	0.03mN/m	0.35°	0.03mN/m
Model	Young-Laplace and polynomial	Equation of states, Fowkes and Oss and Good	Polynomial	Young-Laplace
Drop type	Sessile advancing, receding and static.	Sessile static	Tilting sessile	Pendant static and dynamic
<b>Software</b>				
Application	Android based software			
Security	Multiple user account per device			
Data sharing	Email and cloud (Google drive, Dropbox, MS One drive)			
Interfaces	Bluetooth, wifi, usb, cellular (2G, 3G and 4G)			
<b>Camera</b>				
Performace	10fps at 16MP (5312 by 2988px)			
Zoom	4x			
Focus	Manual			
Sensor	Trigger control based on camera level			
<b>Illumination</b>				
Type	High power LED			
Size	68 by 51mm			
<b>Tilting plate and dosing</b>				
Control	n/a	n/a	Manual and automatic	n/a
Range	n/a	n/a	0° to 60°	n/a
Dosing system	Manual and automatic			
<b>Enviroment</b>				
Temperature	10° to 45°			
Humidity	Without condensation			
<b>Intrument dimension</b>				
Footprint	30(H) x 15(W) x 45(L) cm			
Weight	1.5kg			
<b>Power</b>				
Volteage	5V battery only operation*			
Battery time	Up to 8h			

\*Manual version only; automatic version: 110-230V (50-60Hz)



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