PRINCETON SCIENTIFIC CORPORATION

Solutions For Research. Development & Production

TENSIOMETER

Smart measurement instrument with an automatic dropper for surface energy research.



COST-EFFECTIVE

Our instrument drastically reduces the initial investment costs associated with tensiometers while maintaining high end features.



EASY TO USE

The app at the heart of the Dropometer is simple and intuitive to use, bypassing any need for paid user-training courses. With our Dropometer you can be up and running in less than twenty minutes.



SMARTPHONE-BASED

The system doesn't require the use of additional laptops or desktop computers and benefits from the full connectivity of a smartphone.



MEASUREMENT	METHODS			
Static and dynamic contact angle	Young-Laplace and Polynomial			
Static and dynamic surface tension	Young-Laplace			
Sliding angle	Polynomial			
Surface energy	Equation of States, Fowkes, Oss and Good			

www.princetonscientific.com

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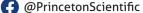














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TENSIOMETER

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Products specifications	Sessile	Energy	Tilted	Pendant
MEASUREMENT				
Range	10º to 175º	Up to 100 mN/m	10º to 175º	Up to 75 mN/m
Resolution	0.019	0.01 mN/m	0.019	0.01 mN/m
Accuracy	0.359	0.03 mN/m	0.359	0.03 mN/m
Model	Young-Laplace and polynomial	Equation of states, Fowkes and, Oss and Good	Polynomial	Young-Laplace
Drop type	Sessile advancing, receding and stat	tic Sessile static	Tilting sessile	Pendant static and dynamic

TILTING PLATE AND DOSING

Control Manual and Automatic Range 0° to 60° Dosing system Manual & Automatic Minimum Drop Volume with Automatic Dosing 0.05 μ L Drop Volume with Manual Dropper 1 rotation is 5.29 μ L

SOFTWARE

Application Android and iOS based software Security Multiple user account per device

Data sharing Email and cloud (Google drive, Dropbox, MS One drive and Box)

Interfaces Bluetooth, wifi, usb, cellular

CAMERA

 Performace
 10 fps

 Zoom
 Zoom

 Focus
 4x

 Focus
 Manual

Sensor Trigger control based on camera level

ILLUMINATION

Type High power LED Size 68 by 51 mm

ENVIRONMENT

Temperature 10° to 45°
Humidity Without condensation

INSTRUMENT DIMENSION

Footprint $30(H) \times 15(W) \times 45(L) \text{ cm}$ Weight 1 kg

POWER

Voltage $$5\,\mathrm{V}$$ battery only operation* Battery time $$\mathrm{Up}\:\mathrm{to}\:8\:\mathrm{h}$$

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