Mobile Surface Analyzer

MSA Flexible Liquid

Specifications





Product group specifications	MSA Flexible Liqui

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Camera system	
Connection	USB 3.0
Performance	25 fps at 1000 × 700 px
Optics	
Focus	fixed focus
Zoom	fixed focal length
View angle	2°
Field of view	4.7 mm × 3.3 mm
Resolution	5 µm
Illumination	
Туре	high power LED
Wave length, dominant	468 nm
Field of light	5 mm × 23 mm (H × D)
Dosing system	
Dosing	single direct dosing
Drop deposition	software-controlled
Cartridge (volume)	disposable cartridge (1 mL)
Resolution	0.25 μL
Speed	2.7 μL/s – 100 μL/s
Software	
ADVANCE	contact angle
	surface free energy of solids
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Measurement specifications

MSA Flexible Liquid

Sessile drop	
Result	contact angle
Range (software-based)	0 to 180°
Resolution (software-based)	0.01°
Accuracy (instrument-based)	0.8°
Models	conic section, polynomial, circle, Young-Laplace, height-width
Туре	static
Surface free energy of solids	
Result	surface free energy (SFE), polar & disperse part, acid & base part, H-bond part
Models	equation of state, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble, extended Fowkes, acid-base theory

General specifications

MSA Flexible Liquid

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Sample dimensions	
Maximum sample size	$\infty \times \infty \times \infty$ (W × D × H)
Housing and peripherals	
Compartment	aluminum
Environment	
Operating temperature Humidity	10 °C to 40 °C without condensation
Instrument dimensions	
Footprint Height Weight (without accessories)	84 mm × 32 mm (W × D) 112 mm 0.85 kg
Power supply	
Voltage Power consumption	5 V (powered via USB) 4.5 W
Interfaces	
PC	USB 3.0