Mobile Surface Analyzer

MSA One-Click SFE

Specifications







Product group specifications

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Product group specifications	MSA One-Click SFE
Camera system	
Connection Performance	USB 3.0 25 fps at 1000 × 700 px
Optics	
Focus Zoom View angle Field of view Resolution	fixed focus fixed focal length 2° 2 × 4.7 mm × 3.3 mm 5 μm
Illumination	
Type Wave length, dominant Field of light	high power LED 468 nm 5 mm × 23 mm (H × D)
Dosing system	
Dosing Control Cartridge (volume) Resolution Speed	Liquid Needle double pressure dosing system software-controlled disposable cartridge (1 mL) 0.1 µL fixed (fast jet)
Software	
ADVANCE	contact angle surface free energy of solids



Measurement specifications

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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	
Гуре	static	
Surface free energy of solids		
Result	surface free energy (SFE), polar & disperse part	
Models	equation of state, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble	

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Genera	Specifications	

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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