MOBILE SURFACE ANALYZER – MSA

SPECIFICATIONS





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Product	aroup	specifica	ations

Camera system		
Connection Performance	USB 3.0 2 × CF02: 10 fps at 1	
Optics		
Focus Zoom View angle Field of view Resolution	fixed focus fixed focal length 2° $2 \times \text{CF02: 4.7 mm} \times 3.3 \text{ mm}$ $2 \times \text{CF02: 5} \ \mu\text{m}$	
Illumination		
Type Wave length, dominant Field of light	high power LED 468 nm 5 mm × 23 mm (D × H)	
Dosing system		
Dosing	double pressure dosing	single direct dosing 1)
Drop deposition	software-controlled	
Cartridge/syringe (volume)	disposable cartridge (1 mL)	disposable syringe (1 mL)
Resolution Speed	0.1 μL fixed	
Software		
ADVANCE	contact an surface free energ	

Measurement specifications

MSA

Sessile drop		
Result	contact angle	
Range ²⁾	0 to 180°	
Resolution 2)	0.01°	
Accuracy 3)	0.8°	
Model	conic section, polynom, circle, Young-Laplace, height-width	
Туре	static	
Surface free energy of solids		
Result	surface free energy	
Model	equation of states, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble	

¹⁾ optional 2) software-based 3) instrument-based

General specifications	MSA
Sample dimensions	
Maximum sample size	$\infty \times \infty \times \infty (W \times D \times H)$
Housing and peripherals	
Compartment	aluminum
Environment	
Temperature Humidity	operating: 10 °C to 40 °C without condensation
Instrument dimensions	
Footprint Height Weight (without accessories)	106 mm × 59 mm (W × D) 112 mm 0.85 kg
Power	
Voltage Power consumption	5 V 4.5 W
Interfaces	

USB 3.0

PC

