MOBILE SURFACE ANALYZER – MSA

SPECIFICATIONS





		100
Product	aroup	specifications

MSA

Camera system			
Connection	USB 3.0		
Performance	2 × CF02: 10 fps at 1000 × 700 px		
Optics			
Focus	fixed focus		
Zoom	fixed focal length		
View angle Field of view	20		
Resolution	2 × CF02: 4.7 mm × 3.3 mm 2 × CF02: 5 μm		
	2 × 010	2. 3 μπ	
Illumination			
Туре	high power LED		
Wave length, dominant	468 nm		
Field of light	5 mm × 23 mm (D × H)		
Dosing system			
Dosing	double pressure dosing	single direct dosing 1)	
Drop deposition	<u>software-controlled</u>		
Cartridge/syringe (volume)	disposable cartridge (1 mL)	disposable syringe (1 mL)	
Resolution	0.1 µL		
Speed	fixed		
Software			
ADVANCE	contact angle		
	surface free er	nergy of solids	

Measurement specifications

MSA

Sessile drop		
Result	contact angle	
Range ²⁾	0 to 180°	
Resolution 2)	0.01°	
Accuracy 3)	0.8°	
Models	conic section, polynom, circle, Young-Laplace, height-width	
Туре	static	
Surface free energy of solids		
Result	surface free energy	
Models	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		
Operating temperature Humidity	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 supply		
Voltage Power consumption	5 V 4.5 W	
Interfaces		

USB 3.0

PC

