



Mobile Surface Analyzer – MSA One-Click SFE

Specifications



Product group specifications**MSA One-Click SFE****Camera system**

Connection	USB 3.0
Performance	2 × 10 fps at 1000 × 700 px

Optics

Focus	fixed focus
Zoom	fixed focal length
View angle	2°
Field of view	2 × 4.7 mm × 3.3 mm
Resolution	5 μm

Illumination

Type	high power LED
Wave length, dominant	468 nm
Field of light	5 mm × 23 mm (H × D)

Dosing system

Dosing	double pressure dosing
Drop deposition	software-controlled
Cartridge (volume)	disposable cartridge (1 mL)
Resolution	0.1 μL
Speed	fixed

Software

ADVANCE	contact angle surface free energy of solids
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Measurement specifications**MSA One-Click SFE****Sessile drop**

Result	contact angle
Range ¹⁾	0 to 180°
Resolution ¹⁾	0.01°
Accuracy ²⁾	0.8°
Models	conic section, polynomial, circle, Young-Laplace, height-width
Type	static

Surface free energy of solids

Result	surface free energy
Models	equation of state, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble

¹⁾ software-based²⁾ instrument-based

General specifications

MSA One-Click SFE

Sample dimensions

Maximum sample size $\infty \times \infty \times \infty$ (W × D × H)

Housing and peripherals

Compartment aluminum

Environment

Operating temperature 10 °C to 40 °C

Humidity without condensation

Instrument dimensions

Footprint 84 mm × 32 mm (W × D)

Height 112 mm

Weight (without accessories) 0.85 kg

Power supply

Voltage 5 V

Power consumption 4.5 W

Interfaces

PC USB 3.0

