Contact Angle Tester

CAT

Specifications







Product group specifications	Contact Angle Tester
Camera system	
Connection Resolution	USB 3.0 1920 × 1200 px
Frame rate	2300 fps
Dark noise	2.5 electrons
Dynamic range	71.7 dB
Optics	
Focus	manual
Zoom	6.5× zoom, manual
View angle	0 to 3.4°
Field of view Resolution	3.0 × 2.2 to 19.2 × 12.2 mm 4.4 to 15.6 µm
Illumination	
Type Wave length, dominant Field of light	high power monochromatic LED 460 nm 60 × 60 mm
Dosing system	
Dosing	electronic pipette
Drop deposition	manual
Pipette, volume Resolution	120 μL 0.5 μL



Product group specifications

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Stages	z-axis
Control Length	manual 52 mm
Software	
ADVANCE	contact angle surface free energy of solids
Software languages	

 $Chinese \ (simplified), English, French, German, Japanese, Korean, Portuguese, Russian, Spanish$

Measurement specifications	Contact Angle Tester
Sessile drop	
Result Range (software-based) Resolution (software-based) Accuracy (instrument-based) Models Types	contact angle (CA) 0 to 180° 0.01° 0.1° conic section, polynomial, circle, Young-Laplace, height-width static, dynamic
Surface free energy of solids	
Result Models	surface free energy (SFE), polar & disperse part, acid & base part, H-bond part euqation of state, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble, Schultz-1, extended Fowkes, acid-base theory

General specifications

Contact Angle Tester

306 mm × ∞ × 69 mm (W × D × H)
10 to 40 °C without condensation
658 mm × 252 mm (W × D) 430 mm 8.5 kg
90 to 264 V
9 W
47 to 63 Hz
USB 3.0 (for camera)