

SDC-200S

Contact Angle Measuring Instrument

SINDIN 晟鼎

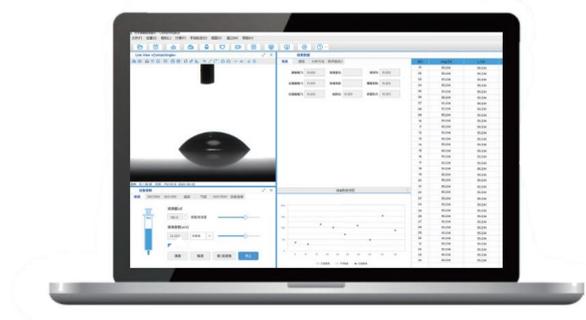


SDC-200S is a fully automated solution focused on surface wettability and adhesion analysis. Equipped with a variable zoom lens, it delivers clear and detailed imaging. Utilizing aircraft-grade materials, it ensures quality control from the source and long-term stable performance.

SDC-200S offers flexible expansion of testing functions and a variety of accessories to meet diverse material and process requirements. The fully automated injection system offers high-speed response and precise positioning, ensuring stable and reliable test results in a wide range of applications.

Features:

- Upgraded model capable of measuring contact angle, surface energy, and optional surface tension.
- Automatic dripping and positioning systems offer an accuracy of $\pm 0.01 \mu\text{l}$.
- LED cold light source, telecentric zoom lens, and imported industrial-grade camera ensure zero imaging error.
- High-strength aviation aluminum alloy and high-precision adjustable feet ensure stability and reliability.
- A modular design allows for robust expansion capabilities.
- Self-developed integrated circuit control ensures stable operation.
- Highly functional software and an intuitive user interface ensure ease of use.



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Specifications

Dimensions		
1	Footprint	L800×W190×H640mm;
2	Weight	16Kg
Power supply		
3	Voltage	100 ~ 240VAC
4	Power	50W
5	Frequency	50/60HZ
Space		
6	Platform dimensions	160 × 200mm
7	Maximum sample size	280 × ∞ × 60mm
8	Sample platform adjustment	Three-axis manual adjustment (option: automatic) Forward and backward adjustment: manual, 60mm travel, 0.1mm accuracy Left and right adjustment: manual, 35mm travel, 0.1mm accuracy Up and down adjustment: manual, 80mm travel, 0.1mm accuracy
Camera System		
9	Maximum Image Size	5000 (H) × 4000 (V)
10	Maximum Frame Rate	200 fps (option: higher frame rates)
11	Sensor	SONY 1/1.8" Spectral, Monochrome/Color
12	Power Supply	5 VDC USB Port
13	Transmission	USB3 Vision
Microscope lens		
14	Focal length	130mm ± 5mm
15	magnification	magnification 10x
16	Resolution	4-14μm
Light Source		
17	Type	Single-wavelength industrial LED (cold light)
18	Exhaust	470nm
19	Gas requirements	Φ50mm
20	Light Point	96-grain intensive
21	Lifetime	50000Hour
Dosing System		
22	Drop Method	Direct-feed precision microsyringe
23	Control	Automatic dosing System and positioning system, software digital control
24	Drop Accuracy:	0.01μl
25	Capacity	500μl (Option:100μl/1000μl)
26	Speed	1μL/min ~ 2000μL/min
Software		
27	Contact angle range	0-180°
28	Resolution	0.01°
Surface tension		
29	Measurement range	0 ~ 3000mN/m
30	Resolution	0.01 mN/m
Surface Energy		
31	Test Methods	Zisman, OWRK, WU, WU2, Fowkes, Antonow, Berthelot, EOS, Work of Adhesion, Work of Wetting, Spreading Coefficient