

# SDC-100

Contact Angle Measuring Instrument

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## Basic Contact Angle Measuring Instrument

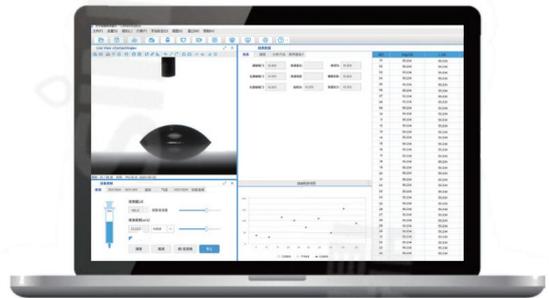
SDC-100 is a basic solution for surface wettability and adhesion analysis. As a high-performance contact angle measuring instrument for both research and industrial surface analysis, SDC-100 is the ideal choice.

SDC-100 offers flexible expansion of test functions and accessories to meet diverse material and process requirements, allowing for customization to meet customer needs. Whether in basic research in a research lab or quality control on an industrial production line, the manual dosing system meets diverse application scenarios, ensuring accurate and reliable results.



## Features:

- Contact angle, surface energy, and optional surface tension.
- Manual droplet placement, accuracy of  $\pm 0.1 \mu\text{l}$ .
- Made of high-strength aviation aluminum alloy and featuring high-precision adjustable feet, the device is stable and reliable. A modular design concept provides strong scalability.
- Self-developed integrated circuit control ensures stable operation.
- Highly functional software and an intuitive user interface ensure simple and easy operation.



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## Specifications

Dimensions		
1	Footprint	L550×W196×H485mm;
2	Weight	11Kg
Power supply		
3	Voltage	100 ~ 240VAC
4	Power	20W
	Frequency	50/60HZ
Space		
5	Platform dimensions	130 × 150mm
6	Maximum sample size	250 × ∞ × 60mm
7	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		
8	Maximum Image Size	4000 (H) × 3000 (V)
9	Maximum Frame Rate	120 fps (option: higher frame rates)
10	Sensor	SONY 1/1.8" Spectral, Monochrome/Color
14	Power Supply	5 VDC USB Port
15	Transmission	USB3 Vision
Microscope lens		
16	Focal length	100mm,
17	magnification	magnification 8x
18	Resolution	6-12μm
Light Source		
19	Type	Single-wavelength industrial LED (cold light)
20	Exhaust	470nm
21	Gas requirements	Φ50mm
22	Light Point	96-grain intensive
23	Lifetime	50000Hour
Dosing System		
23	Drop Method	Direct-feed precision microsyringe
24	Control	Manual
25	Drop Accuracy:	0.1μl
26	Syringe	High-precision, airtight syringe
27	Capacity	1000μl
28	Needle	0.51mm stainless steel super-hydrophobic needle (standard)
Software		
29	Contact angle range	0-180°
30	Resolution	0.01°
Surface Energy		
31	Test Methods	Zisman, OWRK, WU, WU <sup>2</sup> , Fowkes, Antonow, Berthelot, EOS, Work of Adhesion, Work of Wetting, Spreading Coefficient
Data report		
32	Output	Automatically generates reports and can be printed in various formats including Excel, Word, and spectra.