

The logo for KRÜSS, featuring the brand name in a bold, sans-serif font with a curved line above the letters.

# Contact Angle Tester

Specifications



**Product group specifications****Contact Angle Tester****Camera system**

Connection	USB 3.0
Resolution	1920 x 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	3.0 mm × 2.2 mm to 19.2 mm × 12.2 mm
Resolution	4.4 to 15.6 μm

**Illumination**

Type	high power monochromatic LED
Wave length, dominant	460 nm
Field of light	60 × 60 mm

**Dosing system**

Dosing	electronic pipette
Drop deposition	manual
Pipette, volume	120 μL
Resolution	0.5 μL

**Stages**

Control	manual
Length	52 mm

**Software**

ADVANCE	contact angle surface free energy of solids
---------	--

## Measurement specifications

## Contact Angle Tester

### Sessile drop

Result	contact angle (CA)
Range	0 to 180°
Resolution	0.01°
Accuracy	0.1°
Models	conic section, polynom, circle, Young-Laplace, height-width
Types	static, dynamic

### Surface free energy of solids

Result	surface free energy (SFE)
Models	equation of state, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble, Schultz-1, extended Fowkes, acid-base theory

## General specifications

## Contact Angle Tester

### Sample dimensions

Maximum sample space	306 mm × ∞ × 69 mm (W × D × H)
----------------------	--------------------------------

### Environment

Operating temperature	10 to 40 °C
Humidity	without condensation

### Instrument dimensions

Footprint	658 mm × 252 mm (W × D)
Height	430 mm
Weight (without accessories)	8.5 kg

### Power supply

Voltage	90 to 264 VAC
Power consumption	9 W
Frequency	47 to 63 Hz

### Interfaces

PC	USB 3.0
----	---------

