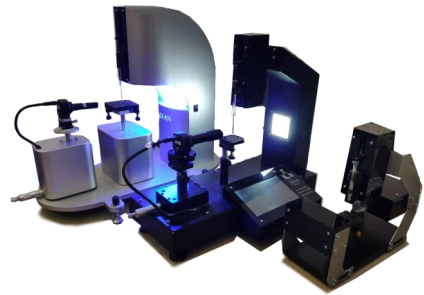


JIKAN Contact Angle, Surface Tension & Surface Free Energy Measurement Device

Devices to measure static and dynamic (advancing, receding and hysteresis) contact angles, surface tension and surface free energy.



Jikan CAG Series Comparison Chart

Features		CAG-Lite (For Education)	CAG-10	CAG-20	CAG-20 PE
Basic Features	Static CA Measurement	✓	✓	✓	✓
	Dynamic CA Measurement	✗	✓	✓	✓
	Surface Tension Measurement	✓	✓	✓	✓
	Interfacial Tension Measurement	✗	Upgradable	✓	✓
	Surface Energy Measurement	✗	Upgradable	✓	✓
	Captive Bubble	✗	Upgradable	✓	✓
	Offline Video Analysis	✗	Upgradable	✓	✓
	Live Measurement	✗	✗	✓	✓
Imaging System	Camera	Digital Microscope	CMOS Sensor Global Shutter USB 3.0		
	Field of View (mm × mm)	Variable	6.0 × 4.8	6.4 × 5.1	7.7 × 6.1
	Sub 6 μm Pixel Size	✗	✓	✓	✓
	Telecentric Lens	✗	✓	✓	✓
	Maximum Frame Rate	10 fps	30 fps	120 fps	150 fps
	Violet Lighting System	✗	✓	✓	✓
	Light Intensity Adjustment	✗	✗	✓	✓

Features		CAG-Lite (For Education)	CAG-10	CAG-20	CAG-20 PE
Injection System	Syringe Volume	1 ml	1 μ l to 500 μ l		
	Syringe Type	Removable Tip Needle	Fixed Removable Tip Inverted Needle		
	Injection Rate	2 μ l/s (\pm 0.5 μ l/s)	0.1 μ l/s to 5 μ l/s (\pm 0.01 μ l/s)		
Hardware	Camera Motorized z-Adjustment	✗	✗	✓	✓
	Sample Stage Motorized z-Adjustment	✗	✗	✓	✓
	PTH Sensor	✗	✗	✓	✓
	Camera Back to Front Tilt	✗	-10° to +10° (\pm 1°)	-10° to +10° (\pm 0.1°)	
	Sample Stage Level	✓	✓	✓	✓
	Sample Stage Dimensions (mm \times mm)	50 \times 50		75 \times 75	
	Touchpad Controller	✗	✗	Upgradable	✓
	Compatible with Environmental Chamber	✗	✓	✓	✓
	Compatible with Tilt-Plate Module	✗	✗	✓	✓

- Measuring Surface Tension Using Pendant Drop Method
- Measuring Interfacial Tension Using Pendant Drop Method
- Measuring Static & Dynamic Contact Angle Measurement Using Sessile Drop Method
- Polar & Dispersive Components of Surface Free Energy