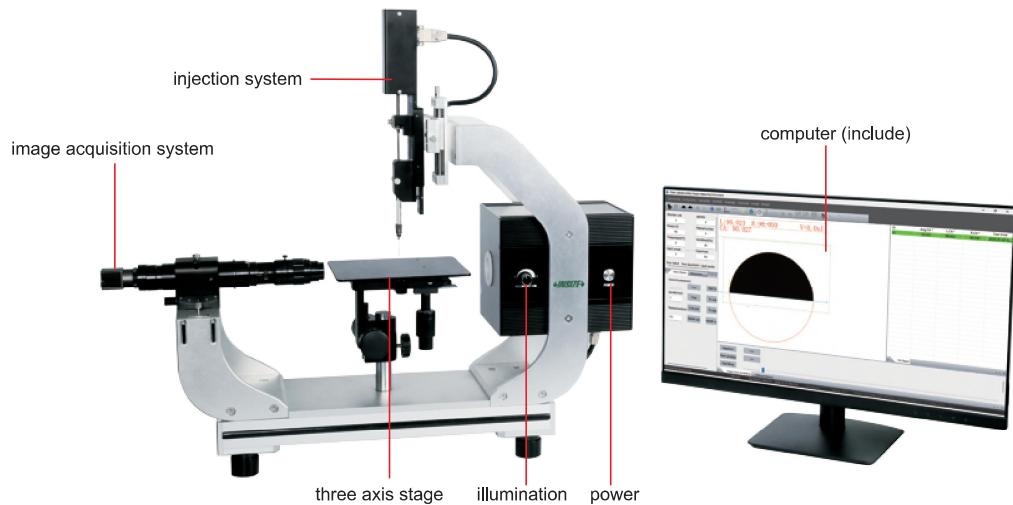
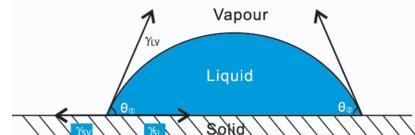


CONTACT ANGLE GONIOMETER

CODE CAG-S200



- Testing the wettability, hydrophilicity, and hydrophobicity of materials on solid surfaces, adhesion testing, wetting capability testing, friction testing
- Suitable for semiconductors and wafers, glass, ink, printing, petroleum, chemical engineering, photovoltaics, material modification
- Automatically generate and export reports in Excel, Word, and diagram formats



$$\theta : \text{contact angle}$$

$$\theta_{CA} = \frac{\theta_{11} + \theta_{22}}{2}$$

$$\gamma_{SV}: \text{Solid-Vapour surface tension}$$

$$\gamma_{SL}: \text{Solid-Liquid surface tension}$$

$$\gamma_{LV}: \text{Vapour-Liquid surface tension}$$

take the average of the bilateral angles to ensure data accuracy

SPECIFICATION

Camera system	pixel	5000×4000
	rate	200fps
	sensor	1/1.8"
	spectrum	black and white/color
Lens	focuss distance	130mm±5mm
	magnification	10X
	range of horizontal adjustment	±10°
	method of collection system	top view/upward view/horizontal view
Light source	type	single wavelength industrial LED (cold light)
	wavelength	470nm
	light field	Ø50mm
	lifespan	50000 hours
Injection system	droplet accuracy	0.01µL
	capacity	500µL
	speed	1µL/min~2000µL/min
	diameter of needle	Ø0.51mm

SPECIFICATION

Software	range of contact angle	0~180°
	resolution	0.01°
	angle measurement method	fully automatic, semi-automatic, manual
analysis method	suspended-drop method, stopped-drop method (2/3 state), bubble-trapping method, sitting-drop method, sitting-needle method, insertion-plate method	
	static analysis, automatic liquid addition/removal dynamic analysis, wetting dynamic analysis, real-time analysis, bilateral analysis, forward/backward angle analysis	
test method	circular method, elliptical/oblique elliptical method, differential circular/differential elliptical method, Young-Laplace method, width-height method, tangent method, interval method	
Surface/interfacial tension testing	test range	0~3000mN/m
	resolution	0.01mN/m
	tension measurement method	automatic
	analysis method	bubble capture method, suspended drop method, real-time spectrogram
Surface free energy test method		Zisman, OWRK, WU, WU2, Fowkes, Antonow, Berthelot, Eos, adhesion work, wetting work, spreading coefficient
Power supply		220V, 50Hz
Dimension (L×W×H)		800×190×640mm
Net weight		16kg

STANDARD DELIVERY

Main unit	1 pc
Computer	1 pc
Dongle	1 pc



fixture (optional)

OPTIONAL ACCESSORY

Fixture	CAG-S-FIXTURE (suitable for films, can be flattened for testing)
Glass calibration chart	CAG-S-CALIBRATION

SOFTWARE (INCLUDED)

