PRODUCT DATASHEET · TICONT SERIES

TICONT TI 205K Contact Angle Analyser

Semi-automatic benchtop analyser · model TI 205K



OVERVIEW

The TICONT TI 205K is the semi-automatic benchtop analyser of the Tech Inc. TICONT contact angle series. Adds software-controlled dispensing and a 50 mm drip-control movement to the benchtop platform; stage movement is manual or automatic. The software gives static, advancing and receding angles and surface free energy from two or more liquids, with single-shot, interval and continuous capture and video playback.

KEY ADVANTAGES

- Platform 130 × 150 mm, travel X 30, Y 50, Z 30 mm
- Platform tilting manual; dispensing by software automation; pipetting manual / automatic
- Drip accuracy 0.1 µl, micro sample injector 1000 µl
- 80 frames/s camera, USB 2.0, 0.7× to 4.5× lens
- Standard 465 nm light source, service life more than 20,000 h
- 505 × 168 × 450 mm, 9 kg, 15 W from 220 V 50–60 Hz

APPLICATIONS

Membrane hydrophilicity and hydrophobicity (MF, UF, NF, RO, MD); coatings, surface treatments and plasma or corona modification; polymer films, glass, wafers and textiles; surface free energy of solids from two or more test liquids; quality control of membrane and coating batches; teaching and research laboratories.

TECHNICAL SPECIFICATION

Instrument dimensions	505 × 168 × 450 mm
Instrument weight	9 kg
Input power	220 V, 50–60 Hz
Power consumption	15 W
Platform size	130 × 150 mm
Moving range	X 30, Y 50, Z 30 mm
Moving mode	Manual / automatic
Platform tilting	Manual
Injection movement stroke	Y 10, Z 20 mm
Drip control movement	50 mm
Drip sampling method	Software automation
Pipetting method	Manual / automatic
Drip accuracy	0.1 µl

Liquid addition method	Manual
Micro sample injector	1000 µl
Camera connection	USB 2.0
Lens	0.7× to 4.5×
Focal length	±2.5 mm adjustable
Image capture	Single shot, by interval, continuous
Shooting interval	500 ms to 3,600,000 ms
Video	Recording, playback and synthesis
Maximum shooting speed	80 frames/s
Light source service life	More than 20,000 h
Light source wavelength	465 nm
Light source type	Standard

THE TICONT SERIES

Nine models with the same optics and software: TI 165 · TI 205 · TI 405 · TI 405K · TI 605 · TI 605K · TI 1005K · TI 125. Compare them at www.techincresearch.com/product/contact-angle.

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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