PRODUCT DATASHEET · TICONT SERIES

TICONT TI 165 Contact Angle Analyser

Entry-level benchtop analyser · model TI 165



OVERVIEW

The TICONT TI 165 is the entry-level benchtop analyser of the Tech Inc. TICONT contact angle series. Manual stage, tilting and dispensing with a 130 × 150 mm platform, 80 frames/s USB 2.0 camera and 0.1 µl drip accuracy. The starting point for routine wettability checks on membrane coupons and films. 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 manual rotary knob; pipetting manual
- 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 × 460 mm, 8.6 kg, 5 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 × 460 mm
Instrument weight	8.6 kg
Input power	220 V, 50–60 Hz
Power consumption	5 W
Platform size	130 × 150 mm
Moving range	X 30, Y 50, Z 30 mm
Moving mode	Manual
Platform tilting	Manual
Injection movement stroke	Y 10, Z 20 mm
Drip control movement	25 mm
Drip sampling method	Manual rotary knob
Pipetting method	Manual
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 205 · TI 205K · 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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