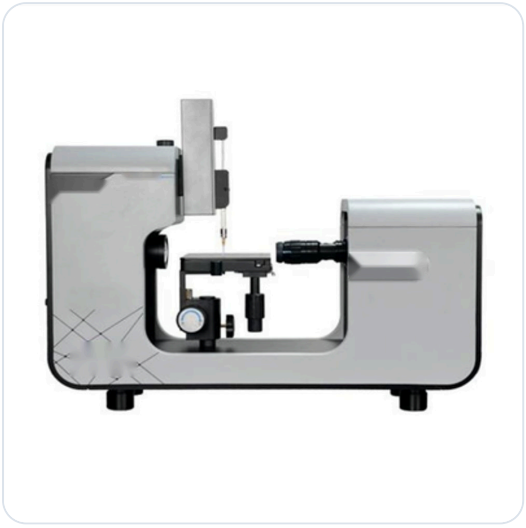
PRODUCT DATASHEET · TICONT SERIES

TICONT TI 405K Contact Angle Analyser

High-speed analyser with automatic pipetting · model TI 405K



OVERVIEW

The TICONT TI 405K is the high-speed analyser with automatic pipetting of the Tech Inc. TICONT contact angle series. The TI 405 platform with automatic pipetting and automatic liquid addition, for repeatable drop volumes without operator influence. 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 automatic
- Drip accuracy 0.001 µl, micro sample injector 500 µl
- 400 frames/s camera, USB 3.0, 0.7× to 4.5× lens
- Collimated 465 nm light source, service life more than 50,000 h
- 630 × 180 × 500 mm, 10.8 kg, 33 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	630 × 180 × 500 mm
Instrument weight	10.8 kg
Input power	220 V, 50–60 Hz
Power consumption	33 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 12, Z 12 mm
Drip control movement	60 mm
Drip sampling method	Software automation
Pipetting method	Automatic
Drip accuracy	0.001 µl

Liquid addition method	Automatic
Micro sample injector	500 µl
Camera connection	USB 3.0
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	400 frames/s
Light source service life	More than 50,000 h
Light source wavelength	465 nm
Light source type	Collimated

THE TICONT SERIES

Nine models with the same optics and software: TI 165 · TI 205 · TI 205K · TI 405 · 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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