PRODUCT DATASHEET · TICONT SERIES

# TICONT TI 605K Contact Angle Analyser

Large-platform analyser with automatic tilting · model TI 605K



## OVERVIEW

The TICONT TI 605K is the large-platform analyser with automatic tilting of the Tech Inc. TICONT contact angle series. The 300 × 300 mm platform with automatic tilting, automatic pipetting and software-controlled dispensing, for roll-off and sliding-angle studies on large samples. 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 300 × 300 mm, travel X 130, Y 170, Z 50 mm
- Platform tilting automatic; dispensing by software automation; pipetting automatic
- Drip accuracy 0.1 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
- 950 × 380 × 550 mm, 30 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

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|---|---|
| Instrument dimensions | 950 × 380 × 550 mm |
| Instrument weight | 30 kg |
| Input power | 220 V, 50–60 Hz |
| Power consumption | 33 W |
| Platform size | 300 × 300 mm |
| Moving range | X 130, Y 170, Z 50 mm |
| Moving mode | Manual / automatic |
| Platform tilting | Automatic |
| Injection movement stroke | Y 40, Z 35 mm |
| Drip control movement | 30 mm |
| Drip sampling method | Software automation |
| Pipetting method | Automatic |
| Drip accuracy | 0.1 µl |

| | |
|---|---|
| Liquid addition method | Manual |
| 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 405K · TI 605 · 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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