

Top View Analyzer

TVA100B

Specifications



Product group specifications

TVA100B

Camera system

Connection	USB 3.0
Resolution	1920 × 1200 px
Frame rate	2300 fps
Dark noise	7 electrons
Dynamic range	73 dB

Optics

Focus	manual
Zoom	6.5× zoom, manual
Field of view	1.6 mm × 1.6 mm to 9.1 mm × 9.1 mm
Resolution	1.2 μm

Illumination

Type	LED illumination with manual dimmer
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Dosing system

Dosing	electronic pipette
Drop deposition	manual
Syringes, volume	disposable tips (0.1 to 10 μL)

Software

ADVANCE	contact angle surface free energy of solids (optional)
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Software languages

Chinese (simplified), English, French, German, Japanese, Korean, Portuguese, Russian, Spanish

Measurement specifications
TVA100B
Sessile drop

Result	contact angle
Range	3.5 to 23° (±0.1°), 23 to 75° (±1°)
Models	reflecting curve
Type	static

Surface free energy of solids (optional)

Result	surface free energy (SFE), polar & disperse part, acid & base part, H-bond part
Models	equation of state, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble, extended Fowkes, acid-base theory

General specifications
TVA100B
Sample dimensions

Maximum sample space	300 mm × ∞ × 50 mm (W × D × H)
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Environment

Operating temperature	10 to 40 °C storage: -10 to 70 °C
Humidity	without condensation

Instrument dimensions

Footprint	610 mm × 250 mm (W × D)
Height	430 mm
Weight (without accessories)	10 kg

Power supply

Voltage	12 V
Power consumption	40 W

Interfaces

PC	USB 3.0
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