

# TOP VIEW ANALYZER – TVA100

## SPECIFICATIONS



**Product group specifications****TVA100****Camera system**

Connection	USB 3.0
Performance	CF03: 150 fps at 1200 × 1200 px 500 fps at 1200 × 350 px 800 fps at 1200 × 200 px 2000 fps at 1200 × 60 px
Dark noise	7 electrons
Dynamic range	73 dB

**Optics**

Focus	manual
Zoom	6.5× zoom, manual
Field of view	CF03: 1.6 mm × 1.6 mm to 9.1 mm × 9.1 mm
Resolution	CF03: 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 <sup>1)</sup>
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**Measurement specifications****TVA100****Sessile drop**

Result	contact angle
Range	3.5 to 23° (±0.1°), 23 to 75° (±1°)
Models	conic section, polynom, circle, Young-Laplace, height-width
Type	static

**Surface free energy of solids <sup>1)</sup>**

Result	surface free energy
Ranges	equation of state, Zisman, Fowkes, Wu, Owens-Wendt-Rabel-Kaelble, Schutz-1, Schutz-2, extended Fowkes, acid-base theory

<sup>1)</sup> optional

**General specifications****TVA100****Sample dimensions**

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

**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

