

3D Contact Angle

Ayríis®

Specifications



Product group specifications

Ayríis

Camera system

Type	stereo camera
Connection	MIPI CSI-2
Performance	2 cameras with 50 fps at 1024 × 1024 px each

Optics

Focus	fixed focus
Zoom	fixed focal length

Illumination

Type	2 lasers + 90 high power LEDs
Wave length, dominant	white

Dosing system

Dosing	water single pressure dosing
Drop deposition	software-controlled
Cartridge (volume)	prefilled water cartridge (4 mL)
Resolution	0.1 µL
Speed	fixed

Output

Type	Microsoft Excel (XML format) via Ethernet
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Measurement specifications
Ayrís
Sessile drop

Result	contact angle
Range	0 to 180°
Resolution	0.1°
Accuracy	2°
Models	3D Contact Angle
Type	static

Software

Software type	integrated user interface
Available software modules	contact angle

General specifications
Ayrís
Sample dimensions

Maximum sample size	$\infty \times \infty \times \infty$ (W × D × H)
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Housing and peripherals

Compartment	aluminum
Touch display	integrated color IPS display (480 × 800 px, size 4")

Environment

Operating temperature	10 °C to 40 °C
Storage temperature	5 °C to 45 °C
Humidity	without condensation

Instrument dimensions

Footprint	58 mm × 51 mm (W × D)
Height	290 mm
Weight (without accessories)	1.15 kg

Power supply

Voltage	15 V
Battery runtime	4 h
Charging power	max. 30 W

Interfaces

PC	USB 3.0
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