

Phoenix-i Contact Angle Analyzer



The smallest instrument of the Phoenix series is without any doubt the Phoenix-i. As a small, portable instrument with approximately the size of a package of cigarettes it is the ideal instrument for quality process control with the capabilities of the larger models. Size the whole instrument can set placed on a sample, the sample size is unlimited. The contact angle of any sample can be measured and analyzed without any sample preparation. It can be easily connected to a notebook via USB port. Data can be checked on the notebook screen online and the contact angle review provides direct information of the wettability of the solid sample. The micrometer controlled syringe allows precise drop control. Since the drop is in a narrow housing, the images are not affected by sunlight or the environment illumination. A user defined number of images in a defined sequence can be captured by a mouse click.

Features

- Online image and analysis preview without the need of data analysis
- Defined high resolution camera system
- User defined baseline for difficult samples
- Long life LED light source
- Improved precision and reproducibility by eliminating user mistakes
- Very low weight of instrument

Capabilities

- Static contact angles
- Sequential image capturing with user defined interval, time and number
- Surface energy calculation
- Smart capture for high hydrophilic sample
- Real time contact angle display (preview function)

Typical Applications

- Semiconductor applications
- Detection of organic contamination on PCB and electronic components
- Evaluation of the cleanliness, surface treatment and coating processes
- Hydrophobicity and hydrophilicity of solid surfaces
- Biological applications as the detection and characterization of proteins
- Quality determination of plasma treatments
- Printability on polymers

Option



Software controlled tilting stage



Result preview and d-base function

Specifications

Model	Phoenix-I
Max. Sample size	unlimited ∞
Light Source	LED
Resolution	640 x 480 pixel
Max. measuring speed	70 frames/sec.
Drop control	Manual Drop Control
Contact angle range	3 ~ 180°
Accuracy	± 0.1 °
Connecting type	USB connection
Operating system	Windows XP®, Windows 7®, Windows 8®
Power	110/220 volt, 50/60 Hz
Dimension (H x W x D) mm	90 x 90 x 50
Weight	450 g



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