

Contact Angle Analyzer

Phoenix series

The Phoenix series is designed to offer the flexibility required for Q.A, R&D and engineering process development.

The Phoenix series has a specially designed optical system for reducing the light scattering and is mounted with a camera easily adjusted in all-directions. The fluid is dispensed from a manually controlled syringe system or semi-Auto / Automatically by embedded a stepping motor system. The position of the sample stage can be precisely adjusted along the x-, y-, or z-axis for fine image Analysis.

Features

- Automatic and rapid sample analysis and high-speed dynamic image capture.
- Improved precision and reproducibility by the elimination of operator error.
- Available to connect to Notebook or Desktop PC via USB port.
- Auto calculation of surface energy and work of adhesion.
- High-resolution and powerful image capture system.
- Automatic & manual image Analysis.



Capabilities

- Static / Dynamic contact angles.
- Advancing and Receding contact angle by Captive method.
- Sequence image captures by time basis & dynamic Movies.
- Surface Energy / Surface Tension.
- Sessile Drop / Pendent Drop.

Typical Application

- Semiconductor applications.
- Detection of organic contamination on PCB and electronic components.
- Evaluation of cleanliness / treatment / coating processing.
- Hydrophobicity and hydrophilicity of solid surfaces.
- Biological application such as the detection and characterization of proteins.
- Adsorption / Wettability of Powder and Pharmacy.
- Analysis of plasma treatments to increase the wettability on polymers surfaces.

Options

- Thermal chamber (RT to 500°C)
- Thermal pad (RT to 500°C)
- Sample stage for Tilt method
- Long stage for PCB strips
- Circular rotation stage for 8", 12" wafer

Technical Data

Model	Phoenix 150	Phoenix 300	Phoenix 300 plus
• Max. Sample size (W x H x L)	200 x 150 x ∞ (mm)	200 x 150 x ∞ (mm)	250 x 200 (mm) 12" wafer
• Zoom	6.4 fold	6.4 fold	6.4 fold
• Resolution	768 x 576 NTSC, 16M color	768 x 576 NTSC, 16M color	768 x 576 NTSC, 16M color
• Max Measuring speed	30 images / s	30 images / s	30 images / s
• Drop controll	Precise manual Handle	PC controlled automatic syringe system	PC controlled automatic syringe system
• Contact Angle range	0~180°, ± 0.1° accuracy	0~180°, ± 0.1° accuracy	0~180°, ± 0.1° accuracy
• Operating system	Windows XP / 2000	Windows XP / 2000	Windows XP / 2000
• Connecting type	Frame Grabber or USB 2.0	Frame Grabber or USB 2.0	Frame Grabber or USB 2.0
• Power supply	110V / 220V, 50 / 60Hz	110V / 220V, 50 / 60Hz	110V / 220V, 50 / 60Hz
• Demension (L x W x H, in / mm)	25.5 x 12 x 18 / 650 x 300 x 450	25.5 x 12 x 18 / 650 x 300 x 450	31 x 12 x 20 / 800 x 300 x 500

SEO reserve the right to change specifications without notice



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