

Contact Angle Analyzer

Phoenix 150 / 300



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

- Data checking instantly without open analysis window by preview result function
- Precision drop volume control per 1micro liter
- Data comparison function
- 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



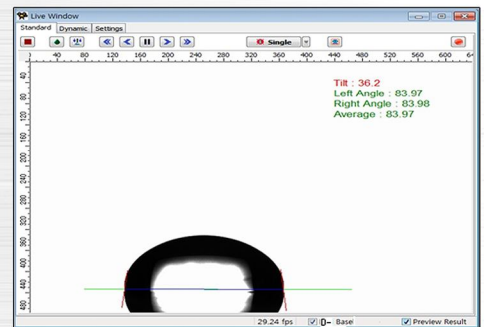
Capabilities

- Data checking instantly without open analysis window by preview result function. (P-150 / 300)
- Static (P-150 / 300), dynamic contact angles. (P-300)
- Advancing and receding contact angle by captive method. (P-300)
- Sequence image captures by time basis & dynamic movies. (P-150 / 300)
- Surface energy / dynamic video. (P-150 / 300)
- Sessile drop / surface tension by pendent drop method. (P-150 / 300)
- Real time contact angle display. (P-150 / 300)
- Precise calculate drop volume. (P-150 / 300)
- Precision drop volume control per 1micro liter. (P-300)
- Data comparison function. (P-150 / 300)



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.



User friendly for "Preview and D-base" functions

Technical Data

• Model	Phoenix 150 / 300
• Max. Sample size (mm)	200 x 70 x ∞ (mm)
• Zoom	12X
• Resolution	640 x 480
• Max. Measuring speed	70fps (USB), 84fps (1394)
• Drop control	PC controlled automatic syringe system
• Contact Angle range	0°~180°, ±0.1° accuracy
• Operating system	Windows XP, Window 7, Window 8
• Connecting type	USB 2.0 or 1394
• Power supply	110V / 220V, 50 / 60Hz
• Dimension (L x W x H, in / mm)	24.4 x 10.2 x 19.7 (620 x 260 x 500 mm)

Options

- ① Thermal chamber (RT to 250°C)
- ② Thermal pad (RT to 250°C)
- ③ Entire tilting stage for tilt method
- ④ Captive bubble method kit
- ⑤ Syringe heater



www.s-eo.com

SEO reserve the right to change specifications without notice

SEO (Surface Electro Optics)

#946, Kosekdong, Suwon City, Kyunggido, 441-813, Korea

Tel : +82.31.298.9561 Fax : +82.31.298.9565 E-mail : seo@s-eo.com