

Contact Angle Analyzer

Full Automatic Type Phoenix 600

The Phoenix 600 is a newest product and much upgraded for accurate and precise measurement by fully automatic operation. The system can offer the flexibility required for scientific research and engineering process development.

The Phoenix 600 system controls the fluid dispensing system automatically by embedded a stepping motor system for precise and repeatable drop formation and application. The tip can touch the sample by computer controlling in order to place a liquid drop on it for user's convenience. This insures that a reproducible drop volume is applied to the surface. The multiple syringes (max.3) dispensing system can be modified to dispense 3 liquids at the same time as user's request.

This sample stage can be precisely adjusted along the X- Y- or Z- axis and rotate on a Z- axis for accurate sample position. Also, the stage can be tilted automatically for measuring dynamic contact angles.

The sample size would be no limited up to 12" wafer and 300 x 350 mm.

The Phoenix 600 system can guarantee to carry out the highly upgraded research for your special applications.



Features

- Fully Automatic control for high precision and low errors.
- Automatic and rapid data analysis and high - speed dynamic image capture.
- Auto calculation of surface energy and work of adhesion.
- High-resolution and powerful image capture system.
- Automatic moving stage for sample positioning.
- Installation of multiple syringe (max.3) assembly.

Typical Application

- Semiconductor applications.
- Evaluation of cleanliness / treatment / coating processing.
- Detection of organic contamination on PCB and electronic components.
- Hydrophobicity and hydrophilicity of solid surfaces.
- Quality control and R&D for 12" wafer and OLED.
- Analysis of plasma treatments to increase the wettability on polymers surfaces.

Options

- Thermal chamber (RT to 400°C) / Thermal pad (RT to 400°C)
- Multi-Syringe dispensing system
- Tilt stage
- Large size stage for up to 300 x 350 mm or more
- Circular rotation stage for 12" wafer

Technical Data

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|-----------------------------------|--|
| • Max. Sample size (W x L) | 300 x 350 (mm) / 300mm (12") wafer |
| • Max. Sample thickness | 50 (mm) |
| • Zoom | 6.4 fold |
| • Resolution | 768 x 576 NTSC, 16M color |
| • Dispensing type | PC controlled automatic syringe system |
| • Max. Fluid number | 1 liquid (Option : 3 liquids) |
| • Contact Angle range | 0~180° |
| • Accuracy | ± 0.1° accuracy |
| • Operating system | Windows XP / 2000 |
| • Power supply | 110 to 240 VAC |
| • Dimensions (L x W x H, in / mm) | 385 x 290 x 256 / 9800 x 7400 x 6500 |

SEO reserve the right to change specifications without notice



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