Contact Angle Analyzer



P-300 multi / Automatic 3syringes system

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 embeded a stepping motor system. The position of the sample stage can be precisely adjusted along the X-, Y-, 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
- · Data checking instantly without open analysis window by preview result function
- · User friendly / Surface Energy calculator function with 3syringw system
- · User friendly test conditions memory recipe function on each sample
- · 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

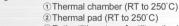


Capabilities

- · Data checking instantly without open analysis window by preview result function.
- · Precise calculate drop volume.
- · Position memory function.
- · Static / dynamic contact angles.
- · Advancing and receding contact angle by captive method.
- · Sequence image captures by time basis.
- · Surface energy.
- · Sessile drop / surface tension by pendent drop method.
- · Real time contact angle display.
- · Drop volume adjust per 1 microliter.
- · Smart capture for hydrophilic material
- · Data comparison function.
- · Curved surface measuring system.

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.



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

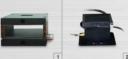
Options

Auto refill system

Phoenix Multi-Plus

X, Y Axis turning table

300 x 300 (mm) 12' wafer









Technical Data

- · Model
- · Max.Sample size (mm)
- · Sample stage
- · Dimension (L x W x H, in / mm)
- · Head Control
- · Lens
- · Max.Measuring speed
- · Drop Control
- · Contact Angle range
- · Accuracy
- · Connecting type
- · Operating system
- · Power

Phoenix Multi

 $200 (D) \times 70 (H) \times \infty (L)$

X, Y Axis

650 (L) x 260 (D) x 650 (H)

Z Axis

High resolution Zoom & focusing

70 / 84 frames / sec

Precisely adjust drop volume per 1micro liter by software essile drop method and touch to surface using in parallel

0'~180; deg

± 0.1 deg (standard Calibration)

1394 fireware or USB

Windows XP, Window 7, Window 8

110 / 220 volt. 50 / 60Hz



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