SEO Dynamic Contact Angle Systems

SEO DCA 200 series Analyzers

The SEO DCA series 200 analyzers offer a powferful, and versatile approach to comprehensive understanding of the complex interactions at liquid-liquid and liquid-solid surfaces. Whether you need to improve adhesion, apply a coating, or modify a surface, a SEO DCA system provides the solutions for;

- · Dynamic Contact Angle of general solid materials.
- · Dynamic Contact Angle of a powders, Washburn Method.
- · Surface / Interfacial Tension
- · Surface energies, wettability, cleanliness and topographical homogeneity of solid sheets, films, and fibers.
- · Dry materials absorption, wicking rate
- · Surfactants analysis with the automatic / manual Critical Micelle Concentration, CMC, software.

SEO Quantum-S Software

SEO Quantum-S is windows based software which accomplishes all DCA functions with ease. Using Wilhelmy Plate and DuNöuy ring methods.

- Dynamic Contact Angle Measurement
- · Interfacial Measurement

- · Surface energies Measurement
- · Surface tension Measurement to ASTM / DIN / ISO · Surfactant studies (Critical Micelle Concentration, CMC) with optional accessory

SEO DCA Application

- · Film / Fibers
- Powders
- Composites
- · Adhesives
- · Bio-Polymers
- Inks
- Paints
- · Shampoos Cosmetics
- · Detergents
- · Pharmaceuticals · Eye-Care products
- · Moisture Barriers
- · Semiconductor & Electronics
- · Oil recovery · LCD, OLED display



SEO DCA 200





eo.com

SEO Quantum-S offers the best flexibility

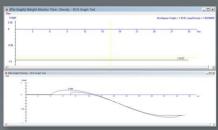
The Quantum-S software is designed for all SEO DCA systems operated under the Quantum-S software. The DCA software allows method storage, development, real time, buoyancy correction and a complete range of analyses, including an automatic run mode. The SEO DCA software expands your analysis capabilities even further by offering like these;

- · Critical Surface Tension Zisman Plot.
- · Surface Energies. (Geometric ,Harmonic, Lewis Acid/Base)
- · Washburn Method.
- · Density Measurement.
- · Liquid Surface Tension components.
- Adsorption measurement.
- · Data can be exported as an Excel file, offering the highest flexibility.
- Data acquisition and data analysis can be performed automatically and / or manually according to method and setting.
- User can test CMC doser and stirrer and temperature accessory separately.

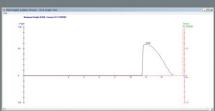


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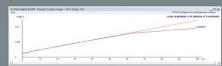
Dynamic Contact Angle (Advancing / Receding)



Two separate display areas show acquisition data and analysis data



Surface Tension by DuNöuy Ring (ASTM)



Washbun Method for powder measurement

Technical Data ●: Available O: Optional

Model Basis Specifications	DCA 200S (Standard)	DCA 200A (All-in-one)
Contact angle range (0-180)		
Resolution (100 ug)		•
Surface Tension Measurement range (1-2000 mN/m)	•	
Resolution (0.01 mN/m)	•	•
Max.Load (250 gram)		

Measuremen

Measurement		
Dynamic Contact angle	•	•
Surface Tension (Wilhelmy / DuNöuy Ring)	•	
Interfacial Tension	•	•
Surface Free energy	•	•
Zisman Plot		•
Data Export to Excel	•	•
Calibration (automatic)	•	•
Adsorption	•	•
Density (0.001~2.2 g/cm³)	0	•
Fiber measurement (≥ 100 μm)	0	•
Powder Wettability / Washbun method	0	•
CMC / Critical Micelle Concentration (Option - Auto / Manual)	0	0

Measuring Assistance Unit

Sample stage Travel Distance	110mm	110mm
Speed	0.01~500 mm/min	0.01~500 mm/min
Stirrer	0	•

Temperature Contro

Internal circulation Chamber		•
Max control Temp. range (-35 °C to 150 °C)		•
Heat / Cool Water bath	0	0

Other

Size - 320 (L) x 230 (D) x 560 (H) mm - 13 (L) x 9 (D) x 22 (H) inch Weight (23 kg / 50 lbs)

Floatric Power (110V / 220V / 50Hz

Specifications are subject to change without notice



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