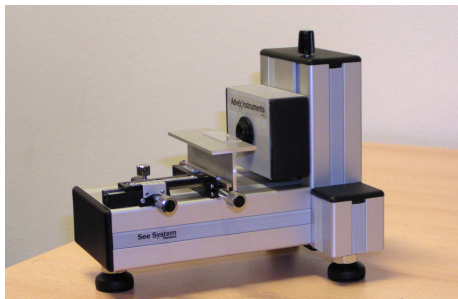


See System Standard



Main features

- Advanced surface testing method for contact angle measurement and surface energy calculation.
- Portable instrument of small size and weight connected through USB port.
- Easy manipulation, quick measurement.
- Low price in comparison with the competitor instruments .
- The sessile drop is imaged by colour camera. Only day light is required (no special light source) → no problems with drop evaporation.
- The system is equipped with special-purpose software, which can handle all necessary operations.
- The images can be captured periodically to record the time evolution of the drop profile (important e.g. in the case of the wettable materials).

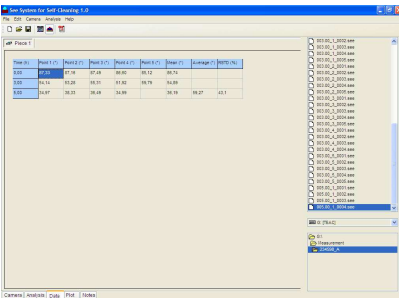
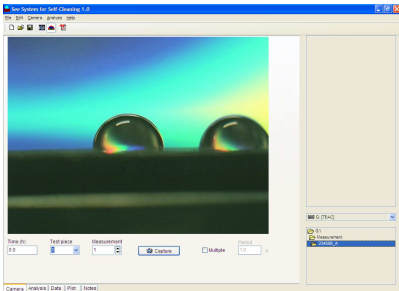
- The captured images are displayed in the program, which enables immediate fitting of the drop profile and calculation of the tangent of the arc made by the drop.
- Two different drop profile analyses are supported by the program.
- The software automatically calculates and displays the contact angle after fitting of the drop profile.

See System for surface energy calculation

- The software enables the calculation of the surface energy on the basis of the most often used models (Neumann, Wu, Owens-Wendt-Rable-Kaeble, Lifshitz-van der Waals/acid-base, etc.). Reliable regression variants of OWRK and acid-base models are also supported.
- Complex error analysis.
- A database of the testing liquids is distributed with the program. New records of the liquid parameters can be simply added (or modified).

Total price including hardware and software for calculation of surface energy: 1985 €.

We provide interesting price reductions for educational institutions (universities etc).



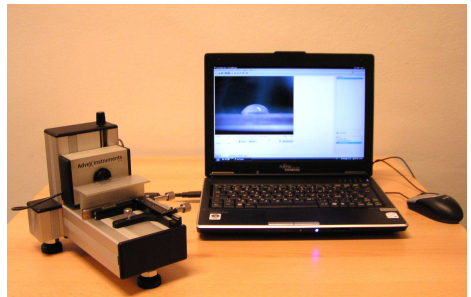
References

- Masaryk University in Brno, The Czech Rep. (prof. Jan Janča),
- Technical University in Bratislava, Slovakia (as. prof. Milan Mikula),
- Comenius University in Bratislava, Slovakia (prof. Černák),
- TNO-PML-Delft-Platformtechnologie Netherlands,
- University of Paris-Sud Orsey, France,
- Czech Centre for Nanosurfaces Engineering, Prague (Dr. František Peterka),
- University of the Free State, Phuthaditjhaba, The Republic of South Africa.

PC requirements

Pentium II 1GHz, 256 MB RAM, free USB port, Windows XP

Dimension 175 x 160 x 145 mm
 Camera colour 640 x 480
 Drop dimension range 0.5 – 20 µl



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