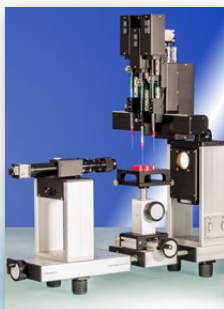


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for surface chemistry

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humidity controller HGC

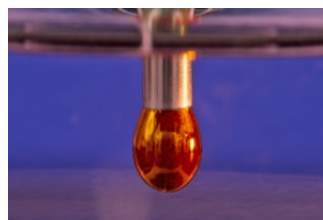
# OCA

## Optical Contact Angle measuring and contour analysis system

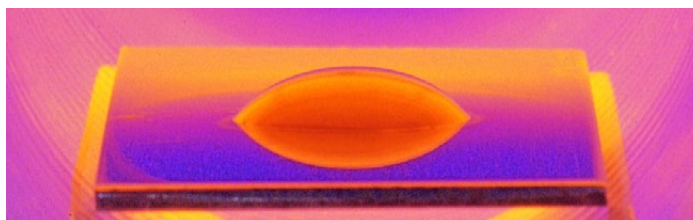
The OCA series features a wide range of accessories which includes various sample holders, temperature and environmental chambers, dosing systems, zoom lenses and high-speed cameras.

Due to our modular system we can find the right solution for your surface chemistry requirements. For example, with the right choice of model and accessories it is possible to evaluate the surface tension of molten metals or to investigate the wetting properties of liquids on single fibres.

Our humidity controllers of the HGC series can be used together with one of our sample chambers or as a stand-alone device.



pendant drop method



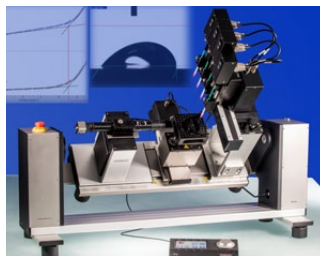
sessile drop method

In numerous diverse engineering applications the ability of liquids to wet solids, affects product quality and the manufacturing processes. Important examples are the production and application of paints and varnishes, the development and optimization of composite materials as well as the bonding and soldering of materials.

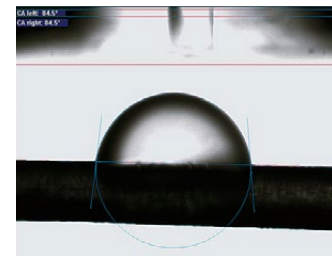
The optical contact angle measuring and contour analysis system **OCA** is a highly versatile instrument for the video-based evaluation of surface and interfacial phenomena.

All models of the **OCA** series are capable of determining the following quantities:

- static and dynamic contact angles on plane, convex and concave surfaces
- contact angle hysteresis
- surface free energy of solids as well as its components according to nine different theories
- surface and interfacial tension of liquids

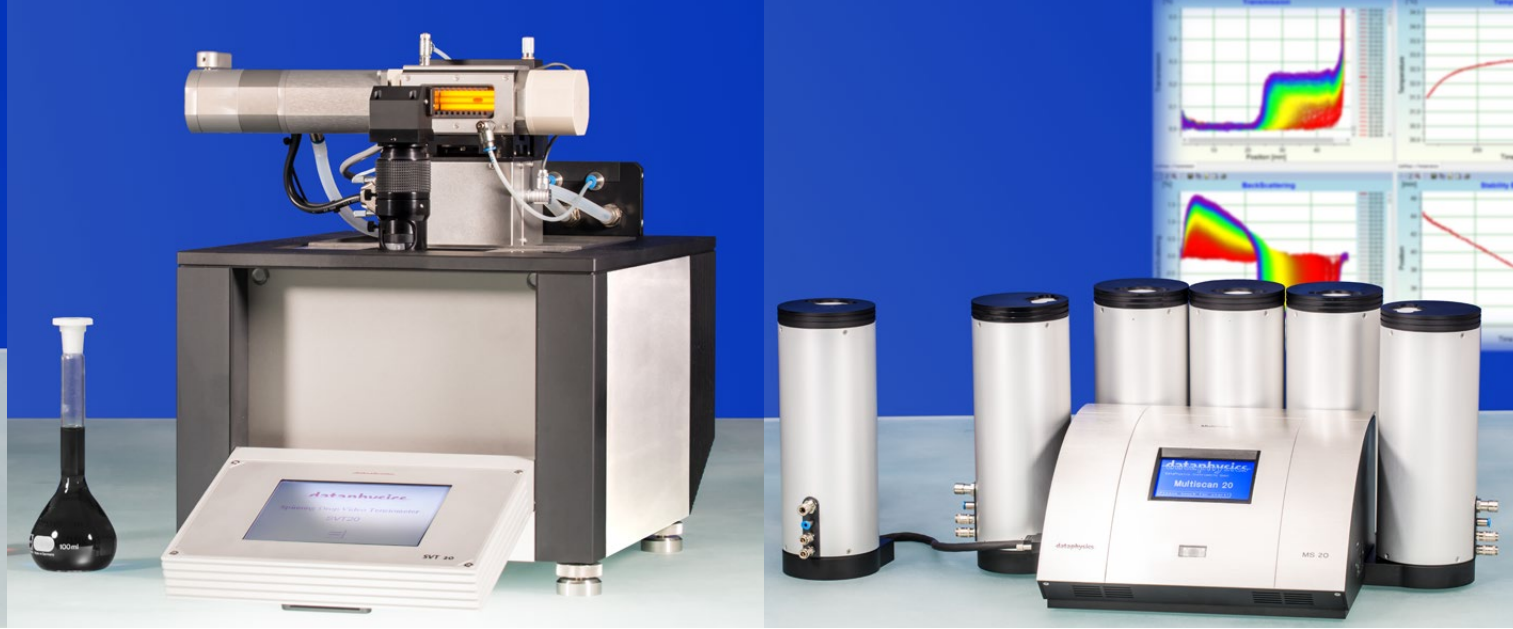
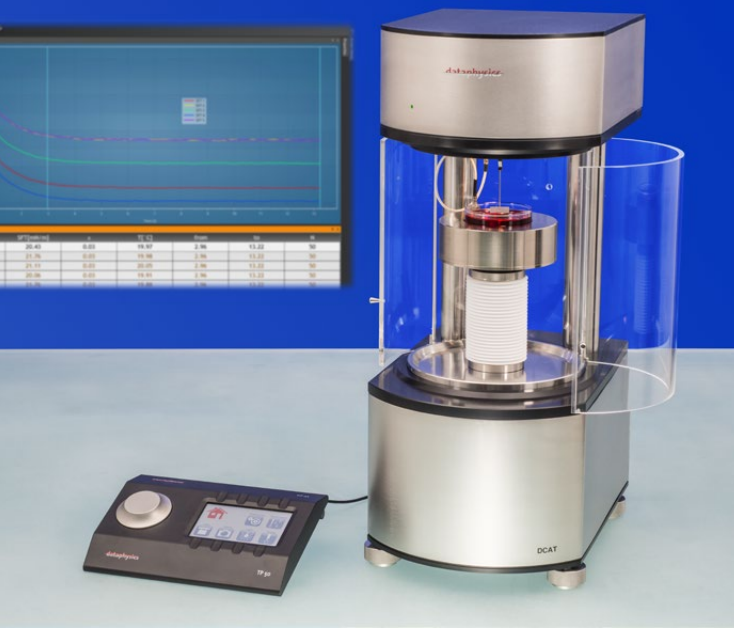


OCA on tilting base unit



contact angle on a fibre





# DCAT

Dynamic Contact Angle measuring device and Tensiometer

# SVT

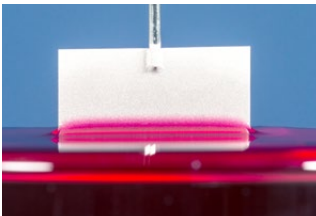
Spinning drop Video Tensiometer

# MS

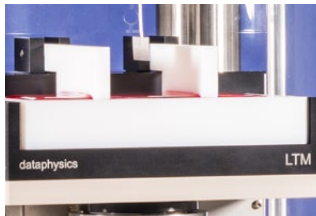
Multi Scan

# Services

Seminars and contract measurements



liquid lamella on Wilhelmy plate



Langmuir trough



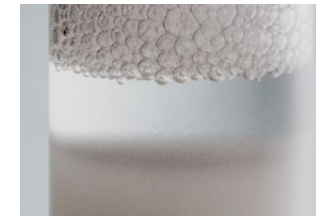
fast exchange capillaries



spinning drop inside capillary



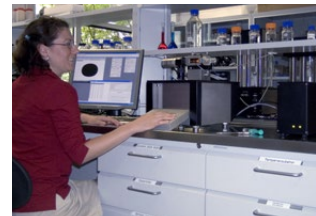
sample vessels



multi-phase system



seminar



contract measurement

The dynamic contact angle measuring device and tensiometer DCAT is the all-purpose instrument for the weight-based measurement of dynamic contact angles, surface and interfacial tension, critical micelle formation concentration (CMC), density, sedimentation and penetration rate.

A video system for adhesion measurements as well as a Langmuir trough for studying monolayers on liquid subphases, are additionally available modules.

The spinning drop video tensiometer SVT is a special-purpose optical instrument for measuring low interfacial tensions according to three different theories. High-precise optics, a fast image processing system, a stroboscopic LED lighting, and a high-dynamic, electronically commuted direct-drive combined with the very compact instrument design allows fast and precise results.

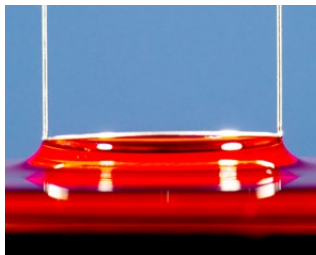
The SVT features fast and easily exchangeable capillaries and temperature controlled chambers for measurements at up to 180 °C.

The Multi Scan MS 20 is an instrument for the automatic stability and aging analysis for a large variety of dispersive systems. It allows, first and foremost, a reliable characterization of the time- and temperature-dependant properties. Additionally, it can provide information about changes in the average particle or droplet size, in the relative size distribution, and in the effective concentra-

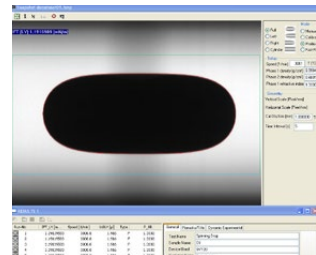
tion of the dispersed phases. For easy and specific sample registration and documentation it features a barcode scanner.

We offer individual, application-specific trainings, either within your work environment or at our modern training centre in Filderstadt, Germany. Additionally, we offer seminars on a regular basis where you have the opportunity to get to know measuring instruments and methods in theory and practice. You can profit from the knowledge of our employees and experienced guest lecturers.

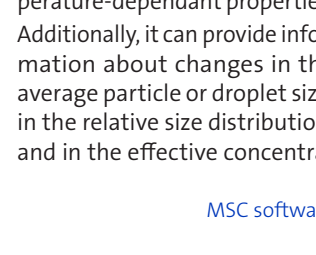
The experts in our application centre perform measurements on your samples for and also gladly together with you.



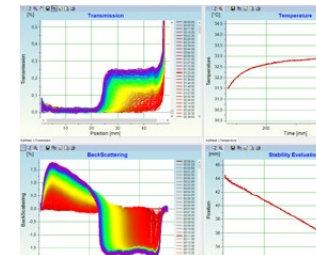
Du Noüy ring



SVTS 20 software



MSC software



results report





**For more information about a tailor-made solution  
to your surface chemistry requirements  
please contact us.  
We will be pleased to provide a quotation,  
obligation-free, for your instrumental system.**

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**Your sales partner:**