



# Micro-Dosing system DSA100M

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## Measurement of contact angles with microdrops

- High performance micro-dosing system
- Magnification up to 50-fold for high quality image acquisition
- Precise and fully flexible sample positioning
- LED illumination to reduce evaporation effects
- Image acquisition up to 1000 frames per second
- Fully compatible to DSA100 measuring system



## Do you see the point?

Please have a brief look at a full stop mark in a newspaper text. Can you imagine to dose 10 drops on an area this size and measure their contact angles?

Measurements like this are possible with the new Micro-Dosing System DSA100M, an innovative

development specially created for extremely small samples such as hairs, welds, or circuit paths.

An innovative dosing unit produces very small drops down to a few picoliter exactly and with a precision landing. A flexible LED illumination with low thermal radiation and

customizable optical system lead to an exquisite image quality. Camera systems with image acquisition rates from 25 up to 1000 fps (frames per second) are available.

## Modular software concept based on DSA

The modular software concept ensures fast development of flexible, customized solutions and fast reaction on market demands. Separate modules exist for:

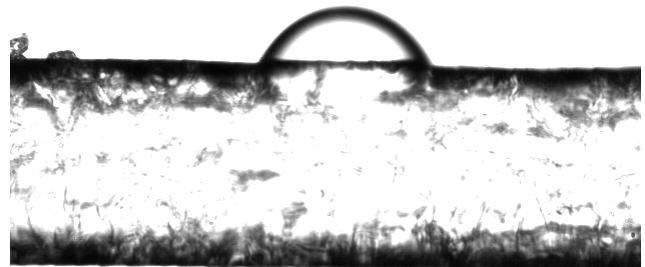
- Microdosing control
- High speed image acquisition
- CA measurement

## Applications

QC and R&D in electronics, cosmetics, biotechnology, bioengineering, i.e. ink jet applications, hair care

## Technical Data

- 20x microscope objective, up to 50x (optional)
- 1/2" CCD camera
- Field of view at 20x magnification: 0.91-0.17 mm (diagonal)
- 6 fold zoom lens
- LED illumination
- Precision stage
- Highly flexible 3D positioning system for dosing head and sample
- Image acquisition speed up to 1000 fps



Microdrop of 50 µm diameter on human hair

Technical specifications are subject to change without notice



KRÜSS GmbH  
Wissenschaftliche Laborgeräte  
Borsteler Chaussee 85-99a  
D-22453 Hamburg  
Tel: +49 - 40 - 51 44 01 - 0  
Fax: +49 - 40 - 51 44 01 - 98  
E-Mail: [info@kruss.de](mailto:info@kruss.de)

KRÜSS GmbH  
38/40 Avenue Jean Jaurès  
F-91120 Palaiseau

Tel: +33 - 1 - 60 14 94 94  
Fax: +33 - 1 - 60 14 95 48  
E-Mail: [info@kruss.fr](mailto:info@kruss.fr)

KRÜSS USA  
1020 Crews Road, Suite K  
Matthews, NC 28105

Tel: +1 - 704 - 847 8933  
Fax: +1 - 704 - 847 9416  
E-Mail: [info@kruss-usa.com](mailto:info@kruss-usa.com)