

## Drop Shape Analyzer

KRÜSS  
model DSA25S



The KRÜSS model DSA25S Drop Shape Analyzer is a high-precision instrument designed for measuring of contact angle (static, advancing & receding, dynamic) of water or other liquids on solid surfaces in air or of air on surfaces underwater; measuring of surface free energy of solid surfaces; measuring of liquid sliding angle on solid surfaces

the shape and contact angle of drops and bubbles. It is used in research and development, quality control, and production monitoring in a wide range of industries such as pharmaceuticals, cosmetics, food, and materials science.

The DSA25S features a high-resolution camera, a high-precision syringe pump, and an advanced software package that enables automated measurements and analysis of contact angles, drop volumes, and surface energies. The instrument can measure contact angles from 0 to 180 degrees and drop volumes from 0.5 to 2,000  $\mu\text{L}$ . The DSA25S comes with a range of accessories such as syringes, needles, and sample holders to accommodate different types of samples and applications. The instrument can be used with a variety of liquids including water, oils, and surfactant solutions.

### INSTRUMENT DIMENSIONS

Measuring Method: Pendant Drop Method

Measurable Drop Size Range: 1  $\mu\text{l}$  - 5 ml

Measurable Contact Angle Range: 0° - 180°

Camera Resolution: 1392 x 1040 pixels

Light Source: LED, green (530 nm)

Analysis Software: ADVANCE software

Overall Dimensions: 210 mm x 350 mm x 560 mm

Weight: 14 kg

Power Requirements: 100-240 V AC, 50/60 Hz, 300 VA

Measurement Temperature Range: 5°C - 80°C

Sample Temperature Control: Peltier cooling/heating, accuracy  $\pm 0.1^\circ\text{C}$

Dosing System: Automatic dosing and cleaning

Pressure Range: 0-600 mbar (optional up to 3 bar)

Gas Connection: 1/8 inch stainless steel tube

Footprint: 610 mm x 250 mm (W x D)

