

Tensiometry

BPA-1P

BPA-1S

DVA-1

PAT-1

PAT-2P

STA-1

STA-2

DPA-1

2D-Rheology

ODBA-1

ISR-1

Foams

FA-1S

TFA-1

Emulsions

DBMM-1

Fluid Dynamics

Profile Analysis Tensiometer PAT-2P



Simple instrument with a modern Windows software

Connection to PC via **USB**
No power supply needed

Drop and bubble profile analysis belongs to the most modern methods to measure the surface and interfacial tension of liquids.

Principle is based on the analysis of the shape of pendent and sessile drops or buoyant and captive bubbles.

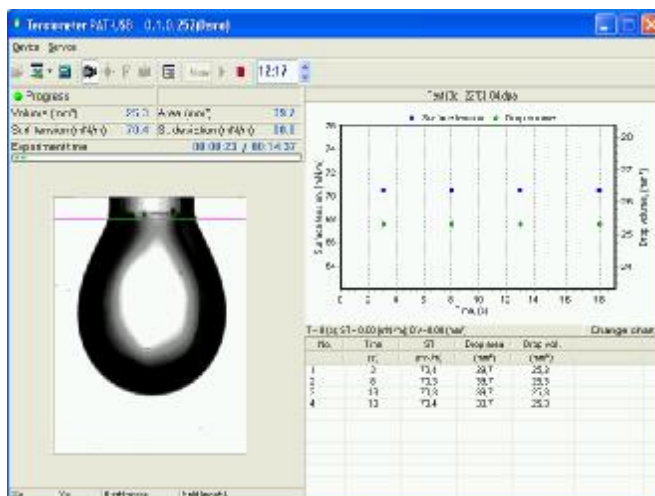
Manual operation allows even simple dilational elasticity experiments.

Instrumental parts

- very compact constructio
- manual dosing system
- temperature controlled measuring cell
- CCD-camera with fixed objective
- data transfer between camera and PC via USB2 or FireWire
- no frame grabber needed

Features of the instrument

- surface and interfacial tension of liquids
- both drop and bubble analysis
- automatic calibration routines
- transient relaxation studies to measure the dilational elasticity
- use with any PC or laptop (no frame grabber needed)
- no extra power supply necessary



This instrument is the low-cost version of our high-end automatic profile analysis tensiometer PAT-1

Fields of Application

Surfactant science
Ink jet printing
Coating technology
Foam and emulsion technology
Detergency

Pharmacy
Cosmetics
Food technology
Medicine and biology
Ecology

Technical Data

Range of surface and interfacial tension	1 to 1000 mN/m; resolution: ± 0.1 mN/m
Optics	fixed objective C-Mount CCD-camera, max. resolution of 640 x 480 pixels optical distortion: < 0.1 %
Data Transfer 30 frames/second	via <i>USB 2.0</i> or FireWire Ports, max 20 MB/s
Software	Windows software (free update over 1 year after purchase)
Measuring options: pendent drop, buoyant bubble transient drop/bubble changes	surface / interfacial tension estimate values of surface elasticity
Temperature	10 to 80°C
Size of device (L x W x H)	300 x 70 x 200 mm (standard)
Weight	1 kg
Power supply	via <i>USB 2.0</i> Hi-Speed
Extra accessories	various capillaries