

## Profile Analysis Tensiometer PAT-2P USB



Simple instrument with a modern Windows software

Connection to PC via *USB 2.0*  
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 construction
- manual dosing system
- temperature controlled measuring cell
- CCD-camera with fixed objective
- data transfer between camera and PC via USB2
- No frame grabber needed

### Tensiometry

BPA-1P

BPA-1S

DVA-1

PAT-1

**PAT-2P**

STA-1

DPA-1

### 2D-Rheology

ODBA-1

ISR-1

### Foams

FA-1S

### Emulsions

DBMM-1

## Features of the instrument

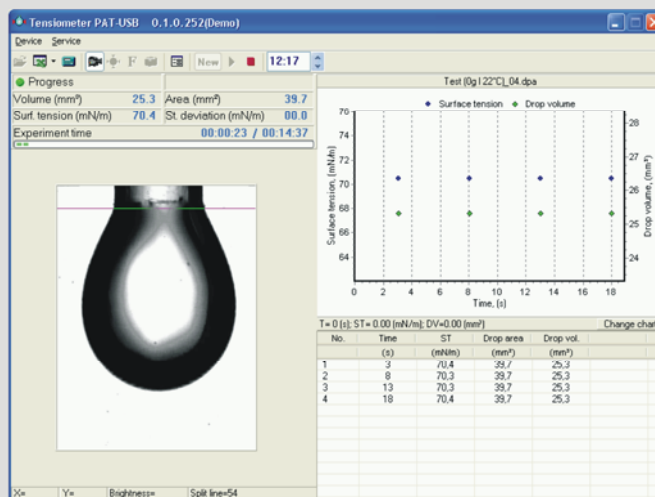
surface and interfacial tension of liquids

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.

## Technical Data:

Range of surface and interfacial tension

1 to 1000 mN/m;  
resolution:  $\pm 0.1$  mN/m

Optics

fixed objective C-Mount  
CCD-camera, max. resolution of 640 x 480 pixels  
optical distortion:  $< 0.1$  %

Data Transfer

via *USB 2.0* Port, max 20 MB/second  
30 frames/second

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 *USB 2.0* Hi-Speed

Extra accessories

various capillaries

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