

# Digital Surface Tension Analyzer

## DST Series

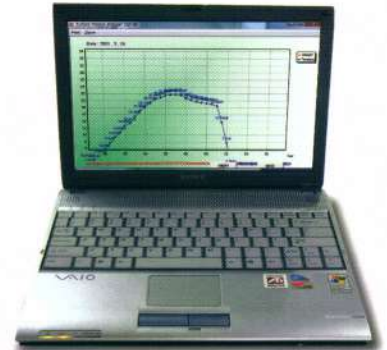
The information of surface or the interfacial tension is critically important in applications such as detergency and emulsification and is also important for many biological processes. Especially, the Du Nöuy Ring method and the Wilhelmy Plate method are commonly used for measuring surface / interfacial tensions.

The DST Series are precise tension meters (with Digital LCD display) for the measurement of surface (Liquid - vapor) & interfacial tensions (Liquid - Liquid) using both the Du Nöuy ring and the Wilhelmy plate.

The DST Series is upgraded version of the manual system and can measure the surface / interfacial tensions auto-matically and precisely using the Du Nöuy Ring method or Wilhelmy

The sample stage can be automatically operated so that the errors from manual operation can be significantly minimized and the accuracy can be maximized.

The surface and interfacial tension results can be gotten quickly with no additional calculations and the measured result and data can be shown easily on the LCD display and printed out.



*DST - 30*

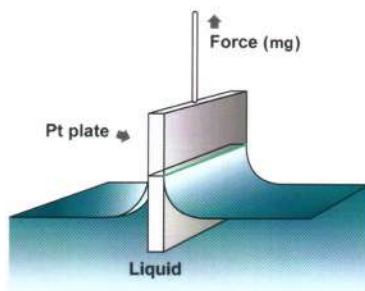
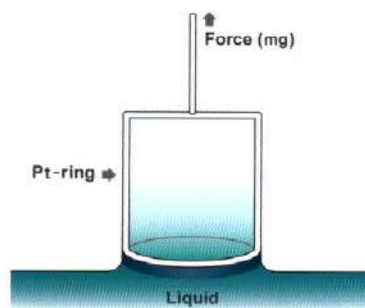


*DST - 60*

The DST Series system is designed for Educational, Quality Control, and other multiple user applications. By simply operating the sample stage manually, you can get the surface / interfacial tension results quickly with no additional calculations. This system has two kinds of controllers for precisely operating the sample stage so that the accuracy and reliability of results can be higher.

### Features

- Du Nöuy ring (Platinum - Iridium) method / Wilhelmy Plate method.
- Auto calculation of Surface tensions.
- Ergonomic, user friendly design.
- Automatic or Manual lift system.
- Accurate and simple operation.
- Temperature Control : -10°C to 100°C
- Print function for DST 60
- Graphic Chart of data
- Data Export to excel calibration function



### Typical Application

- Measurement of Surface and Interfacial Tensions of liquid.
- Determination of properties of surfactant / emulsifying agents.
- Petroleum and fuels applications.
- Evaluation of the reformulation of paint and ink.
- Chemical / Biological application.

### Options

- Heat / Cool circulator (-10°C to 100°C)
- Thermal Chamber
- Dual glass Chamber



accessories

### Technical Data

Model	DST 30	DST 60
• Methods	Du Nöuy ring / Wilhelmy plate	Du Nöuy ring / Wilhelmy plate
• Measuring range	0 to 500 dynes / cm (mN/m)	0 to 1000 dynes / cm (mN/m)
• Balance Capacity	200 grams	210 grams
• Sample stage operation	Precise manual stage	Automatic Lift stage
• Liquid vessel	glass container (50 ml)	glass container (50 ml)
• Power supply	110 to 220 AVC	110 to 220 AVC
• Dimension (L x W x H, in / mm)	7.9 x 9.8 x 12.2 / 200 x 250 x 310	12.2 x 11.8 x 18.1 / 310 x 300 x 460
• Weight	4kg	13kg



[www.s-eo.com](http://www.s-eo.com)

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