

# INTERFACIAL TENSION METER



 **High Temperature**  
200°C - 400°F

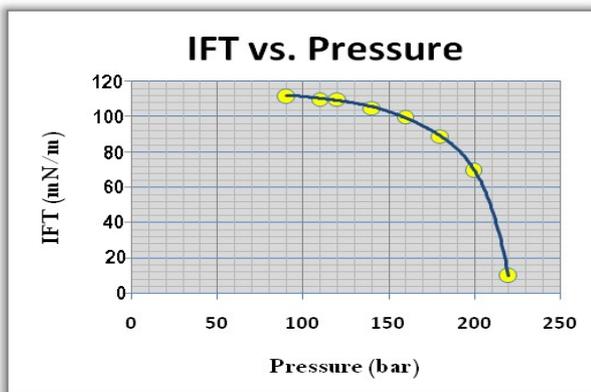
 **High Pressure**  
700b - 10000PSI

## Applications:

Determination at reservoir conditions (200°C – 10000Psi) of:

- \* Interfacial tension between liquid-gas and liquid-liquid interfaces using pendant drop method
- \* Contact angle between liquid and solid interfaces using sessile drop method

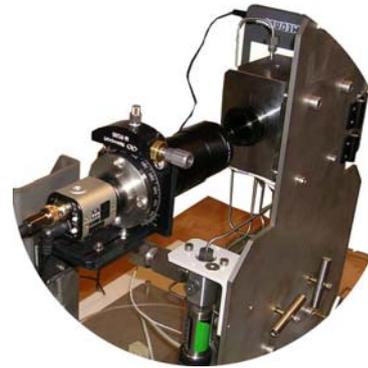
## Benefits:



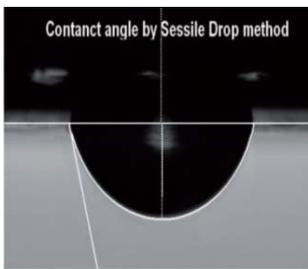
- Very good stability of the drop
- Accurate results with house developed software.
- Ideal for Oil & Gas laboratories

## Hardware features:

- High pressure high temperature view cell with heating system
- Needle to insert drop
- Back pressure regulator
- Hand pumps for fluid transfer
- Two accumulators with heating system
- Camera and light source

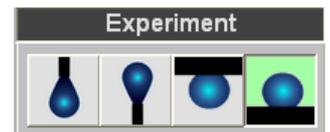


## Software features:



The IFT data and wettability are required to describe the complete system. **Vinci Technologies** has developed a robust software which analyze alone the geometry of the drop optically by measuring and calculating quantities of interest from the drop shape such as:

- \* Left/right contact angle
- \* Pendant or Rising drop surface/Interfacial tension
- \* Drop volume, diameter



The Drop Analysis Software (DAS) is very easy to use and allows automated measurements with periodical recording of all the parameters including the associated images.

Summary of Pendant drop method recorded by DAS



All the functions can be easily achieved and controlled from a user-friendly interface.



Results		
Pressure	0.00	PSI
Temperature	0.00	C
Max. Diameter	3.79	mm
Volume	41.50	cc
Left Angle	1.0	deg
Right Angle	0.0	deg
Run Measurements	OFF	

The IFT and Drop Analysis Software are a combined perfect tool to perform interfacial tension measurements with high accuracy level.