

Demand the best solution for your critical surface analysis, choose VCA-2000™ Family of Products.



**VCA**<sub>2000</sub>  
Video Contact Angle System

**VCA**<sub>2500</sub>  
Video Contact Angle System

**VCA**<sub>2500XE</sub>  
Video Contact Angle System

## VCA-2000™, VCA-2500™ and VCA-2500XE™ for Contact Angle Surface Analysis

### A preferred method for surface analysis

With its easy set-up, precise video image capture and computerized analysis capabilities, the VCA-2000 System Products clearly provide a preferred method to obtain critical surface information quickly and accurately.

### How does it work?

VCA-2000 System Products produce quantitative measurements of the surface condition through video contact angle analysis. The contact angle is defined by the tangent created at the interface of a liquid droplet with a solid substrate (gas/liquid/solid interfaces can also be analyzed). It is directly related to the phenomenon of surface energy which is a critical factor for adhesive bonding, cleanliness evaluation, biocompatibility, surface engineering analysis, and wettability investigations.

### Choose the right system for your application and budget

**VCA-2000** is a manually controlled video contact angle system which operates in Windows 95™ environment and a Pentium™ based computer.

**VCA-2500** is an enhanced video contact angle system which can be customized to meet specific applications with the available hardware and software accessories. It operates in Windows 95™ and Pentium™ based computers.

**VCA-2500XE** provides automatic and user-independent contact angle, surface energy and surface tension calculation and can be customized to meet individual need with the available hardware and software accessories. It operates in Windows 98™ and Pentium based computers.

### The VCA-2000 Family Product Features\*

#### Precise image capture

Capture precise droplet profiles with high resolution camera and high magnification lens with fiber optic light source.

#### User-independent Result

As a function of computerized video image processing, analytical results are user-independent.

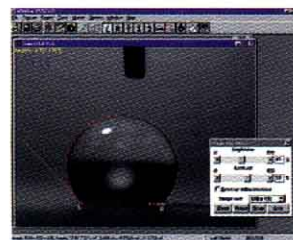
#### Easy operation

Easy liquid dispensing onto solid surface controlled by the operator. Image capture and data analysis are performed automatically by the system.

### Microsoft Windows based user-friendly calculation and analytical software

#### Calculation

**Software** displays, captures and calculates the contact angle through video image processing. Graphical or numerical results can be printed, documented or exported to other programs.



#### Dynamic-2500

**Software** offers movie viewing of high speed image capture for dynamic and time-based contact angle analysis.



#### SE-2500 Surface Energy (dynes/cm)

**Software** calculates the surface energy of an unknown solid substrate in dynes/cm based on the contact angles of multiple known liquids.



#### SPC (Statistical Process Control) Software

records droplet characteristics in an easy to use chart and provides instant statistical values. Data can be saved or exported for further analysis or graphing.

#### PDAST (Pendant Drop Analysis for Surface Tension) Software

determines the surface tension by pendant drop image analysis.



\*Not all features are available to all systems. Please refer to the chart on back for details.