



**CAM-PLUS Contact Angle Meter**

**T**he ChemInstruments CAM-Plus contact angle meter combines reliable surface energy measurement with ease of use. Our patented “Half Angle” measurement method eliminates the difficulties associated with tangent angle measurement methods.

With simple, reliable and consistent operation, you will quickly determine surface energy measurements to help in coating operations of all types.

ChemInstruments “Tantec” CAM-Plus contact angle meter provides:

- Easy “half angle” determination
- Operator independent consistent measurements
- Dyne level readings from 10 to 70
- Easy finite liquid dispensing employs delicate liquid placement (sessile drop)
- Bright clear image on a large screen for display
- Remote light source keeps heat away from sample
- Platform configurations for small samples, films, or printed circuit boards (PCB), plastic ball grip array (PBGA's).

### What is Surface Energy?

**Answer:** Surface energy is most evident in how a surface interacts with an applied liquid.

Like color and texture, surface energy is a physical property. When paint is applied to a sheet of glass, it will typically “ball up” because it does not stick well to the surface. This is surface energy in action. Conversely when liquid is applied to a different material and disperses, this is also surface energy.

The CAM-Plus provides a method, “half angle”, for quantifying this energy relative to other measurements on other surfaces. With this information, prediction of a surface reaction to coatings is possible and eliminates costly trial and error methods.

CAM-Plus is designed for test methods: ASTM D20.19, D724, D5946, and TAPPI T458 cm-94.

### Dimensions (approx.)

#### Main Body

Width: 8" (20cm)  
Length: 18" (45.72cm)  
Height: 15" (38.1cm)  
Weight: 28 lbs (12.7 Kg)

#### Light Source

Width: 7" (17.78cm)  
Length: 8" (20cm)  
Height: 5" (12.7cm)  
Weight: 12lbs (5.4Kg)

#### Fiber Optic Cable

Length: 34" (86.36cm)

### Options:

6x or 12x optical kits  
Micro Stages (samples up to 2" wide)  
Strip Film Stages  
PBGA sliding platforms 47mm, 40mm, 30mm  
Static Eliminator Package