

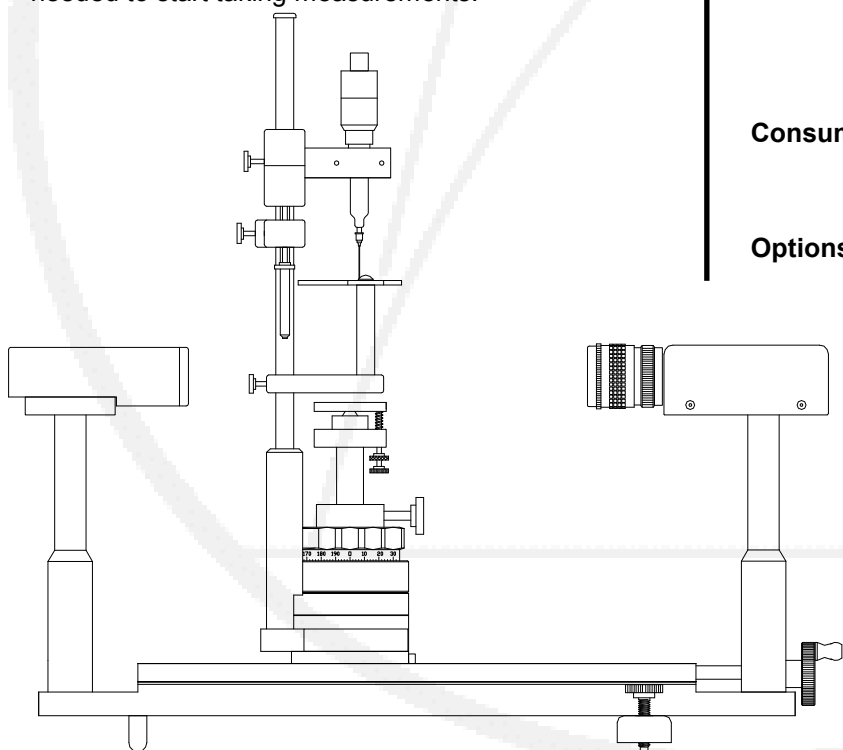
# ramé-hart Model 500

**Advanced Contact Angle Goniometer / Tensiometer  
with DROPImage Advanced Software**

## ramé-hart Model 500 (p/n 500-F1)

This top-of-the-line modular tool is the starting point for many possible configurations. Model 500 accepts every available accessory and includes our award-winning DROPImage Advanced software for complete methods-based interfacial analysis with pendant, inverted pendant, sessile, and captive bubble drops. Additionally, contact angle, surface energy, and calibration tools are included. Add the optional Automated Dispensing System to increase the accuracy and speed of dispensing as well as for advancing and receding studies.

**What's in the box:** Goniometer with F1 Series Camera, Microsyringe Fixture and Shade, Illuminator and Fiber Optic Bundle, (1) Microsyringe Assembly, (1) 22g Straight Needle for manual dispensing, PC and LCD, DROPImage Advanced Software, User Manual, Calibration Tool, and Storage Cover — everything needed to start taking measurements.



## Specifications

<b>Stage Size</b>	2 x 3 in (51 x 76mm)
<b>Sample Size</b>	up to 12 in (300mm) x unlimited*
<b>Contact Angle Range</b>	0 to 180°
<b>Resolution</b>	0.01°
<b>Accuracy</b>	+/- 0.10°
<b>Camera</b>	IEEE1394a FireWire, 1/2" CCD, 400Mbps, 60fps, Progressive Scan
<b>Backlighting</b>	Variable Fiber Optic Illuminator
<b>Stage</b>	Precision 3-Axis
<b>Dimensions</b>	19 x 20 x 10 in (480x500x250mm)
<b>Weight</b>	20 lbs / 9.1 kg (excluding power)
<b>Power Supply</b>	110 or 220 VAC
<b>DROPImage Features</b>	Contact Angle Measurement (7) Surface Energy Tools Methods-based Surface Tension Pendant, Sessile, Captive Bubble Calibration Tool
<b>Consumables</b>	Fiber Optic Bulb 100-00-FOB Microsyringe Assembly 100-10-20 Needles 100-10-12-22
<b>Options</b>	Automated Dispenser 100-22 Environmental Chamber 100-07 Humidity Chamber 100-07-H Elevated Temp. Syringe 100-11 Wafer Support 100-21-x Vacuum Chuck 100-21-VCx Tilting Base 100-06 Lead Frame Support 100-23 Environmental Fixture 100-07-60 Film Clamps 100-15

Contact us for a complete options list.

**Custom options available.**

\* requires custom optics and substrate support options for larger samples.

ramé-hart instrument co • [www.ramehart.com](http://www.ramehart.com) • [carl@ramehart.com](mailto:carl@ramehart.com) • 973-448-0305 • fax 0315

PO Box 400 • Netcong • New Jersey • 07857 • USA



$$\sigma = F(d_s/d_c) d_c^2 g |\rho_1 - \rho_2|$$

