

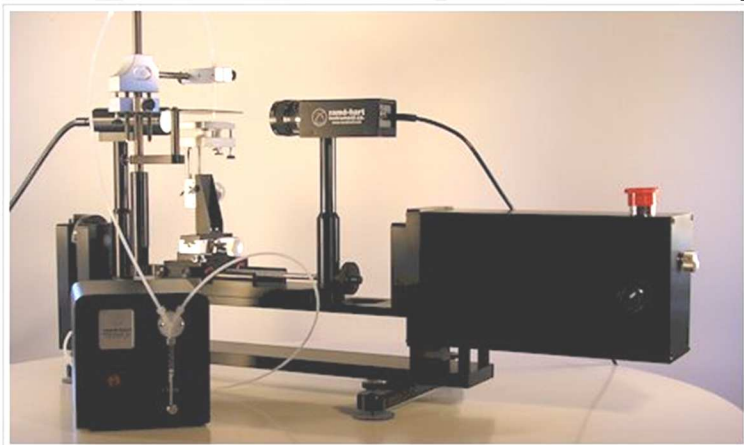
# ramé-hart Model 290

## Automated Goniometer / Tensiometer

### ramé-hart Model 290 (p/n 290-U1)

Model 290 is one of the most automated tools available. This system features the standard 3-axis stage, an Automated Tilting Base and Automated Dispensing System. In addition, the DROPimage Advanced software is included for handling a wide range of methods-based interfacial analysis tools using pendant, inverted pendant, sessile, and captive bubble drops. Additionally, contact angle, surface energy, surface tension, and calibration tools are included. The Automated Tilting Base is ideal for measuring advancing and receding contact angle. The Automated Dispensing System is well-suited for dynamic studies and adds precision to the formation of pendant and sessile drops. Model 290 is an excellent choice for a wide variety of static and dynamic surface evaluation, contact angle.

**What's in the box:** Goniometer / Tensiometer with U1 Series High-Speed Digital Camera, Microsyringe Fixture and Shade, Illuminator and Fiber Optic Bundle, (1) Microsyringe Assembly, (1) 22g Straight Needle, PC and LCD, DROPimage Advanced Software, User Manual, Calibration Tool, Storage Cover, Automated Tilting Base\*\*, Automated Dispensing System\*\*.



### Specifications\*\*

<b>Stage Size</b>	2 x 3 in (51 x 76mm)
<b>Sample Size</b>	3 in (76mm) deep x unlimited
<b>Range</b>	0 to 180° contact angle
<b>Resolution</b>	0.01°
<b>Accuracy</b>	+/- 0.10°
<b>U1 Series Camera</b>	SuperSpeed USB 3.0, 1/3" CCD, 100fps, Progressive Scan, Sony Sensor, 659 x 494 pixels
<b>Backlighting</b>	Variable Fiber Optic Illuminator
<b>Stage</b>	Standard locking 3-axis Stage
<b>Dimensions</b>	39 x 21 x 10 in (480x500x250mm)
<b>Weight</b>	49 lbs / 22.2kg (less power and PC)
<b>Power Supply</b>	115 or 230 VAC
<b>DROPimage Features</b>	Contact Angle Measurement (7) Surface Energy Tools Methods-based Surface Tension Pendant, Sessile, Captive Bubble Calibration Tool
<b>Spares</b>	Spares Kit 100-SPARES-F Illuminator Bulb 100-00-FOB Microsyringe Assy 100-10-20 Needle 100-10-12-22
<b>Options</b>	High Speed Upgrade 100-12-G1 Peltier Enviro Chamber 100-30 Environmental Fixture 100-07-60 Wafer Support (4") 100-21-4 Oscillator 100-28 Film Clamps 100-15 Fixed Drop Ref. Tool 100-27-03 Fixed Pendant Drop Tool 100-25-05

\*\* For additional specifications and details on the Automated Tilting Base and Automated Dispensing System, please consult the corresponding product brochures.

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

19 Route 10 East • Suite 11 • Succasunna • New Jersey • 07876 • USA

