

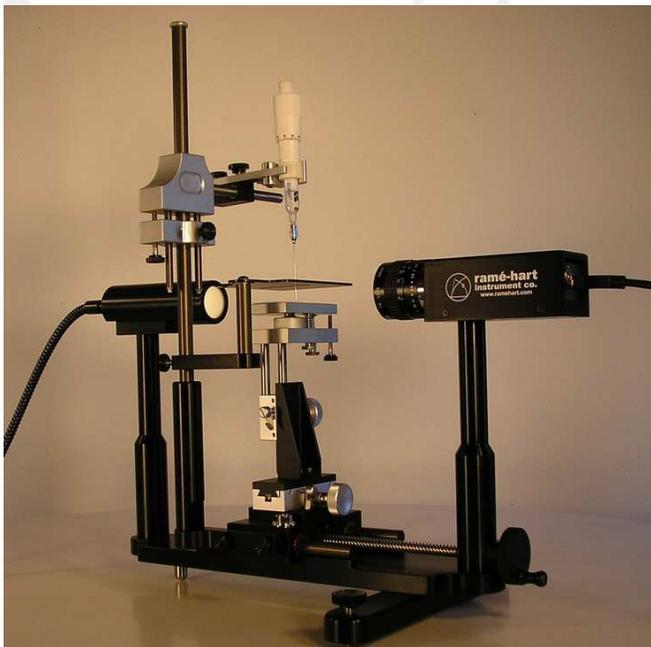
ramé-hart Model 190

**Contact Angle (CA) Goniometer
with DROPimage CA Software**

ramé-hart Model 190 (p/n 190-U4)

Model 190 is an affordable and easy-to-use contact angle tool designed to offer the highest level of precision computer-driven contact angle analysis at the lowest possible acquisition cost. Model 190 accepts the Manual Tilting Base, Environmental Fixture, Wafer Support up to 4" in diameter, and many other options. This turn-key system includes DROPimage CA software.

What's in the box: Goniometer with U4 Series Camera (520 fps), Microsyringe Fixture and Shade, Halogen Fiber Optic Illuminator, (1) Microsyringe Assembly and (1) 22g Straight Needle for manual dispensing, PC with SuperSpeed Interface and monitor, DROPimage CA Software, User Manual, Calibration Tool, and Storage Cover — everything needed to start taking contact angle measurements right out of the box. Model 190 is a complete turn-key contact angle solution.



Specifications

Stage Size	2 x 3 in (51 x 76mm)
Sample Size	3 in (76mm) deep x unlimited
Contact Angle Range	0 to 180°
Resolution	0.1°
Accuracy	+/- 0.10°
U4 Series Camera	SuperSpeed USB 3.0, 1/3" CCD, 520fps, Sony Sensor, 720 x 540 px
Backlighting	Variable Fiber Optic Illuminator
Stage	Precision 3-Axis Locking Leveling
Dimensions	19 x 20 x 10 in (480x500x250mm)
Weight	14 lbs / 6.3 kg (excludes PC)
Power Supply	110 or 220 VAC
DROPimage CA Tools	Contact Angle Measurement Calibration Tool
Spares	Microsyringe Assy. 100-10-20 Needle 100-10-12-22 Set of Spares 100-SPARES-F Fiber Optic Bulb 100-00-FOB
Options	Automated Dispensing 100-22 Environmental Fixture 100-07-60 Software Upgrade 400-22-30 Manual Tilting Base 100-25-M Heated Enviro Cell 100-33 Hot Plate 100-33-HP Film Clamps 100-15 NIST Calibration Device 100-27-31-UPG

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