

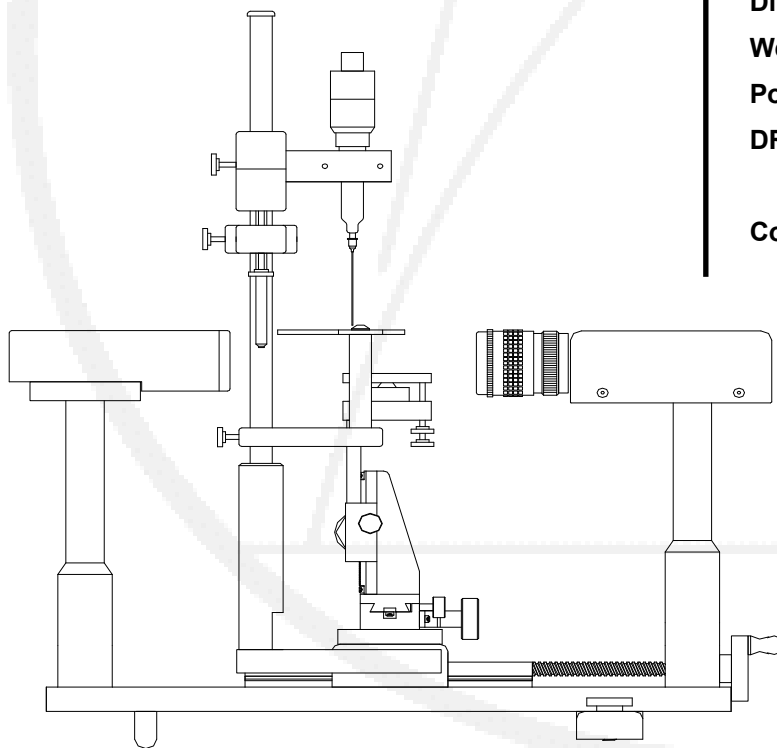
ramé-hart Model 190

Contact Angle Goniometer with DROPimage CA Software

ramé-hart Model 190 (p/n 190-F1)

Model 190 is an affordable and easy-to-use contact angle tool designed to offer the highest level of precision computer-aided contact angle analysis at the lowest possible acquisition cost. This instrument accepts the Manual Tilting Base, Environmental Fixture, Wafer Support up to 4" in diameter, and other options. It can also be upgraded to DROPimage Standard or Advanced software.

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



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°
Camera	IEEE1394a FireWire, 1/2" CCD, 400Mbps, 60fps, Progressive Scan
Backlighting	Variable Fiber Optic Illuminator
Stage	Precision 3-Axis Locking with Leveling Specimen Stage
Dimensions	19 x 20 x 10 in (480x500x250mm)
Weight	14 lbs / 6.3 kg (excluding power)
Power Supply	110 or 220 VAC
DROPimage Features	Contact Angle Measurement Calibration Tool
Consumables	Fiber Optic Bulb 100-00-FOB Microsyringe Assy. 100-10-20 Needles 100-10-12-22
Options	Environmental Fixture 100-07-60 Wafer Support (4") 100-21-4 Software Upgrade 400-22-30 Manual Tilting Base 100-25-M Film Clamps 100-15

Note: The Automated Dispensing System (100-22) can be added to Model 190 but requires the DROPimage Standard or Advanced Software Upgrade.

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

