

ramé-hart Overhead Optical Imaging Kit Model 100-31

Overhead Optical Imaging Kit (p/n 100-31)

The ramé-hart Overhead Optical Imaging Kit can be added to any new or current-generation ramé-hart Goniometer / Tensiometer (with DROPimage Advanced v2.x) to provide a powerful alternate method for measuring contact angle. The overhead method is particularly well-suited for hydrophilic surfaces as well as samples that have surrounding topology that prevents successful profile view capture. A new method has been added to the Contact Angle Tool in DROPimage (v2.6 or higher) which calculates the contact angle based on the diameter of the three-phase line and the volume of the sessile drop. The Automated Dispensing System (p/n 100-22) is recommended (but not included with kit) for precise drop volume formation. Features on the sample can also be measured precisely using the Measure Distance command. The Overhead Reflector and Illuminator Fixtures can be easily installed on and removed from the standard ramé-hart specimen stage to facilitate switching between the overhead method and the conventional profile view method. Contact us for customization for use in chamber or alternate fixture.

What's In The Box

Kit includes an Illuminator Fixture, Overhead Reflector Fixture, Upgrade from DROPimage Advanced v2.x to 2.6**, User Guide, and all tools and parts.



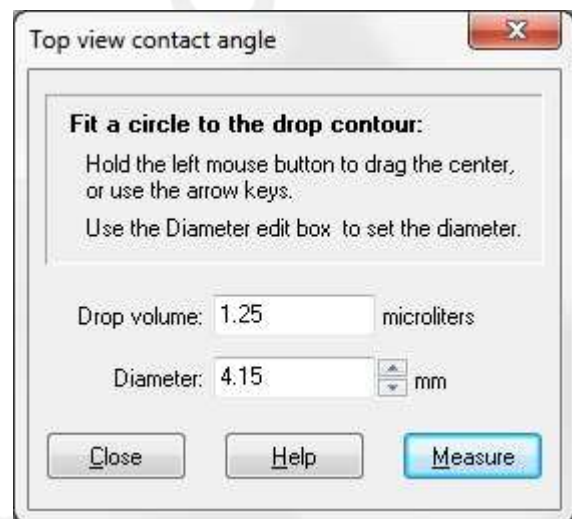
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Specifications

Contact Angle Method	Overhead Method*
Contact Angle Range	0 - 90°
Resolution	0.1°
Accuracy	+/- 0.50%
Maximum 3-Phase Diameter	5.2 mm
Linear Distance Resolution	0.001 mm
Optical Reflector	N-BK7 UV Fused Silica
Reflector Angular Tolerance	+/- 3 arcminute
Reflector Flatness @633nm	$\lambda / 10$
Illumination Method	Cold via Fiber Bundle
Light Source	Halogen (from instrument)
Required Software	DROPimage Adv v2.6**

Options and Spare Parts

100-22	Automated Dispensing System
100-00-FOB	Replacement Halogen Bulb



*The overhead method for measuring contact angle was developed jointly by Dr. Finn Knut Hansen and ramé-hart instrument co. Patent Pending.

**Upgrade from DROPimage Advanced v2.x to 2.6 included with kit; existing ramé-hart instrument required.

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