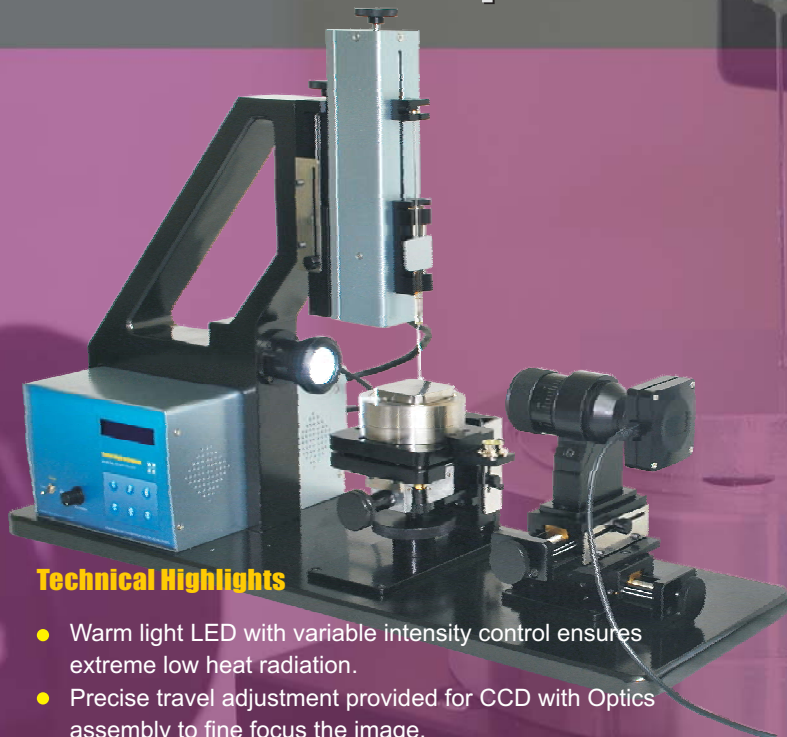


# Contact Angle Meter with Automated Dispenser



## Technical Highlights

- Warm light LED with variable intensity control ensures extreme low heat radiation.
- Precise travel adjustment provided for CCD with Optics assembly to fine focus the image.
- Manual and motorised syringe pump for precise micro litre deposition.
- Innovative technology for interchanging the syringes. Standard 100 micro litre syringe is provided with the system.
- Precision height adjustment, tilt control and angular displacement provided on the test base.
- Vibration inhibiting solid construction for sharp drop images.
- Powerful and user friendly windows software provided for image analysis.
- Live images can be viewed on the PC monitor showing the droplet on the solid surface reassures the operator of validity of the contact angle measurement.
- Image capture and base-line definition are all automatic and quick.

## Specifications

Measuring method	: Sessile drop method
Analysis method	: DropSnake analysis which is based on B-spline snakes (active contours) to shape the drop. LBADSA analysis which is based on the fitting of the Young-Laplace equation to the image data.
Optics	: High performance aberration corrected imaging lens with precise manual focus adjustment.
Video System	: High performance CMOS Sensor. 3m shielded USB cable included.
Lighting	: LED Based diffused lighting mechanism. Light intensity can be controlled.
Dispenser	: Mechanical & Motorized dispenser. 100 micro litre syringe provided with the system.
Dimension	: 675 x 230 x 512 mm
Weight	: Approx: 21 Kgs
Power supply	: 240VAC, 50 Hz.
Other Specifications	: 30mm height adjustment for Sample holder. Tilting +/- 2 degree provided for the Sample holder. Angular displacement of +/- 10 degree for the Sample Holder. 75mm XY Travel provided for the CCD - Optics assembly. Rotatable screws provided beneath the base for fine height adjustments.

Holmarc's Contact angle meter Model no: HO-IAD-CAM-01A is a fully equipped instrument with Motorized syringe pump for precise dispensing and with CCD interface for measuring contact angles of liquids on solid surfaces.

### Static Contact Angle Measurement

The instrument uses sessile drop method which is the standard method for quick and accurate wetting results for finding out Contact angles.

### Advancing / Receding Angle measurement (Contact angle hysteresis)

To find out Contact angle hysteresis, the platform where the drop is placed is tilted to an angle of  $\pm 10$  degrees.

From the advancing and receding angle, Contact angle hysteresis can be calculated.

### Dynamic Contact Angle Measurement

Dynamic measurements are made by utilizing the motorized syringe dispenser in the system.

Automated flow rate from 1  $\mu$ l / m to 100  $\mu$ l / hr can be selected in the system.

### Optional Accessory

#### Temperature control Bed for the test base

For our HO-IAD-CAM-01B model, temperature control bed is provided with which the user can vary the temperature from 30°C to 200°C enabling diverse applications.

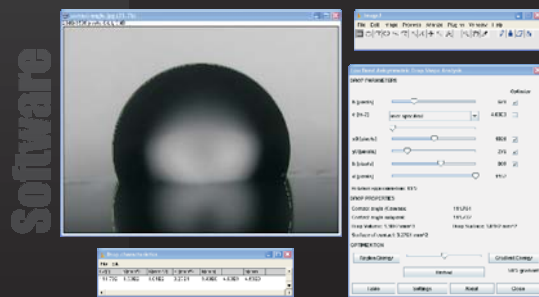
*State-of-the-art optics, precise Opto-mechanics, high-resolution CCD detector and associated electronics used in our instrument guarantee error free measurements ensuring reproducible results.*

*Manual and automatic dosing of liquids can be done using our system.*

*Standard off the shelf syringes can be integrated from 0.4 to 20 ml, from any manufacturer.*

*Compatible with glass, plastic and SS syringes*

Visit us: [www.holmarc.com](http://www.holmarc.com) E-mail : [sales@holmarc.com](mailto:sales@holmarc.com)



### Address

Plot No. B.7, H.M.T., Industrial Estate  
H.M.T. P.O., Kalamassery, Kochi, Kerala  
Ph: 91-484-2540075, 2557487

