

## Economical contact angle meter

# Contact Angle Meter DMe-211Plus

DMe-211Plus is economical yet fully-featured contact angle meter with computer image analysis system "FAMAS" software that enables automatic analysis of contact angle, surface free energy and surface/interfacial tension by pendant drop method.



### FEATURES

- ◆ Possesses "Droplet-trans detection" and enables variation over time in 30FPS.
- ◆ Stage up/down motion enables gentle deposition of droplet without distorting it.
- ◆ Level of body and stage are adjustable. This is significant for measuring hydrophobic surfaces.
- ◆ Standard droplet sample is attached for periodic inspection and calibration.
- ◆ LED light source is used to eliminate temperature effect to the measurements.

### STANDARD COMPONENTS

Item	Q'ty	Item	Q'ty
• DMe-211Plus main body <sup>*1</sup>	1	• Dispenser	1
• Set of 5 glass syringes and 22G SUS needles	1	• Standard droplet sample (standard view)	1
• Acrylic plate (for practice)	1	• Level	1
• USB cable	1	• FAMAS software installation disc	1
• Operation manual (English)	1	• Laptop PC (Windows in English)*	1

<sup>\*1</sup> Main body consists of CMOS camera, LED, stage devices and dispenser holder.

\* A windows PC is required to operate the instrument. It can be provided together optionally.

### SPECIFICATIONS

Model	DMe-211Plus
Measuring method	Sessile drop, Pendant drop (by computer image analysis system)
Analysis method	Contact angle: $\theta/2$ method, Tangent method, Circle/Ellipse fitting Surface/Interfacial tension: ds/de method, Young Laplace
Measuring range	Contact angle: 0 - 180° Surface/Interfacial tension: 0 - 100mN/m
Display resolution	Contact angle: 0.01° Surface/Interfacial tension: 0.01mN/m
Accuracy	Contact angle: 0.3° Surface/Interfacial tension: 0.3mN/m (Repeatability described in standard deviation)
Field of view	Fixed focus, 6.3mm(W) x 4.7mm(H)
Sample size	100mm(W) x 100mm(D) x 10mm(H), max. weight: 300g
Stage movement	Z-axis 10.5mm by manual knob rotation
Droplet dispensing	Manual dispenser with rotation knob
Droplet deposition	By stage up/down movement
Measuring temperature	Ambient
Power requirements	USB bus power. DC5V, 2W max
Dimensions, weight	170mm(W) x 346mm(D) x 283mm(H), approx. 2.6 kg
Operating environment	Temperature: 10 - 35°C, Relative humidity: 30 - 80% (non-condensing) Away from sources of electrical noise and vibration.

The specifications are subject to change without notice.

1702