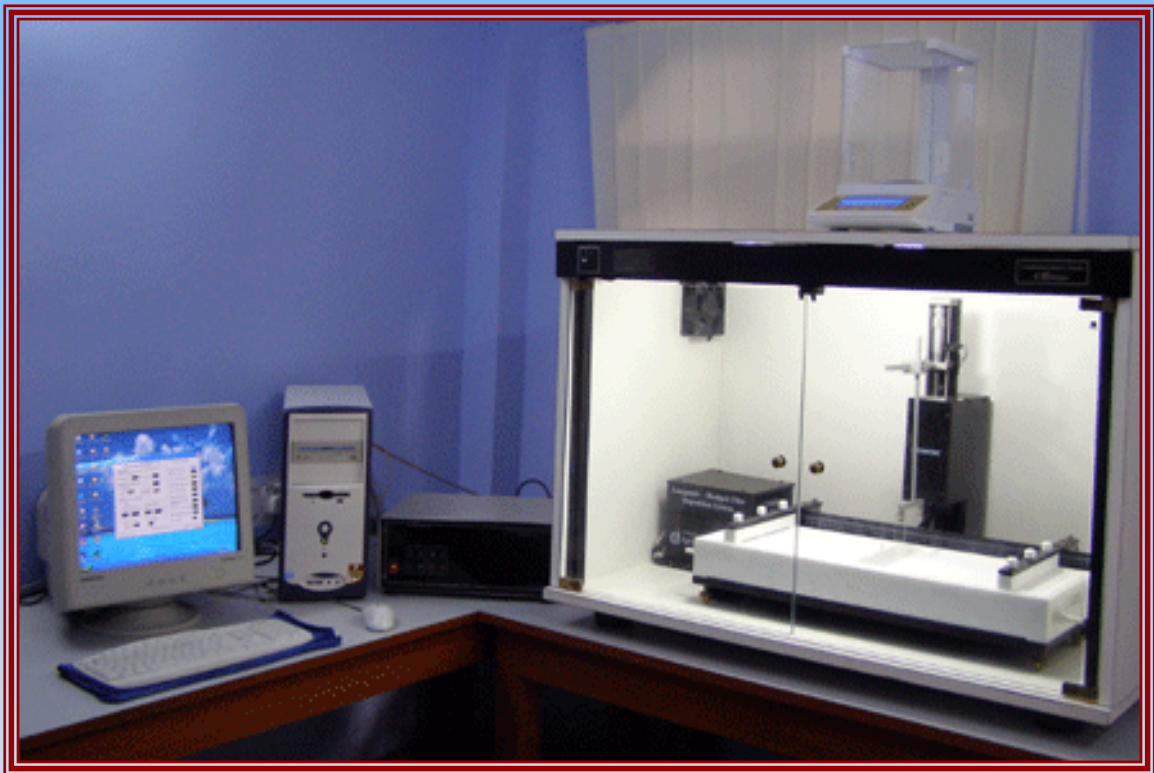


# Langmuir-Blodgett Film Deposition System (Model No. LB-2007DC)

Apex Instruments Co. is pleased to launch a unique fully computer controlled LANGMUIR-BLODGETT FILM DEPOSITION SYSTEM (Model No. LB-2007DC) for the measuring of changes in surface tension, for the study of monolayer properties as well as transferring monolayer to solid substrate.

We can proclaim that this low cost state-of-the-art instrument is most sophisticated, versatile and user friendly. Customer satisfaction is our main motto. We always intend for meaningful faster service.



## Field of application:

- Proteomics,
- Artificial membrane,
- Biosensor,
- Bio-surfactant,
- Polymers,
- Thin film NLO studies,
- Organic light emitting diodes,
- Organic field effect transistors,
- Nano/micro domain fabrication,
- Single molecule spectroscopy.

## Instrument capability:

- Window based menu oriented user friendly program.
- Can measure Pressure( $\pi$ ) – Area(A) Isotherm.
- Can measure Hysterisis Curve of  $\pi$  - A isotherm.
- Can measure Area vs. Time at constant pressure (Stability Curve)
- Can measure Pressure vs. Time at constant area (Adsorption/ desorption Kinetics)
- Can transfer single/multilayer film.
- Can measure transfer ratio.

## Specifications:

- Trough type : Fully Teflon moulded tray.
- Barrier material : Square Teflon bar.
- Barrier type: Double. (Alternative single barrier type, model LB 2000C, available)
- Working area: 650 mm X 200 mm.  
(Custom size trough can be fabricated on request)
- Barrier compression/expansion speed: 0-90 mm/min.  
Compression/expansion resolution: 0.005 mm
- Thermal bath for controlling temperature of subphase.
- Dipping length: 80 mm.  
(Alternative dipping length can be fabricated on request)
- Dipping/lifting speed: 0-90 mm/min.
- Range of film pressure : 0-75 mN/m.
- Pressure measurement resolution:  $\pm 0.02$  mN/m.

**WinLB : Set Parameters**

ISOTHERM & DEPOSITION SCHEME		GENERAL INFORMATIONS	
<b>Subphase</b> Sub Phase Name: Water Sub Phase PH: 6.80    Temperature (°C): 30.00		Dipper Start Position (mm): 29.98 Dipper End Position (mm): 59.98	
<b>Sample Parameters</b> Concentration: 1.00 mg/ml    Mol. Wt. (g): 284.50 Vol. Spread (Micro Litre): 100.00		<input checked="" type="radio"/> Up    Film Length (mm): 30.00 <input type="radio"/> Down	
<b>Isotherm Parameters</b> <input checked="" type="radio"/> mm/min <input type="radio"/> Å <sup>2</sup> /mol.min Compression Speed (mm/min) (Å <sup>2</sup> /mol.min): 5.00    0.93 Expansion Speed (mm/min) (Å <sup>2</sup> /mol.min): 5.00    0.93		Perimeter of the Slide (mm): 52.00 Lifting Speed (mm/min): 5.00 Dipping Speed (mm/min): 5.00 Drying Time after 1st/2nd Layer (min): 20.00 Delay Above Sub Phase (min): 5.00 Delay Below Sub Phase (min): 1.00	
Control Pressure (mN/m): Automatic 70.00    Manual No. of Excursion: 1		No. Of Layers: 10	
Load Default		Back    Ok	

For technical support and more information please write to:

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