

For Surface Studies at Ambient & Atmospheric Pressure Conditions

The Monolayer™/ Grazing Angle Accessory allows the study of insoluble monolayer films at air-water interface in situ using an MCT or InSb detector, and also the analysis of reflective surfaces at grazing incidence angle (8°-85°) using a standard DTGS detector



Features

- Simple alignment
- Easy accessory interchangeability
- High throughput
- Wide incidence angle 8°- 85°
- Interchangeable aperture stops
- Polarizer mount
- Film expansion/compression facility

Alignment is very easy, as it involves the adjustments of only two mirrors. Conversion from one form to another is achieved by a simple change of sample holders. In the monolayer mode, a variety of monolayer systems (eg. Surfactants, proteins, steroids, polymers and phospholipids in biological membranes) can be studied in their native environments.

The ability to stretch and compress the films is incorporated, and useful information such as phase transition changes, solvation of head group, orientation of hydrophobic chain, conformation, configuration and polarization studies may be made

Operating in the grazing incidence mode at high angles of incidence, up to 85° (depending of FTIR model), allows analysis of thin layers of Langmuir-Blodgett films absorbed on reflective surfaces.

Aperture stops are provided to redefine the beam profile to be at prime position on samples at or near grazing angle to enhance the performance. In this operation mode involving air-metal interface, optimization of spectral absorption of coatings on reflective backgrounds and performance data of semi-conductor materials and films can be evaluated.