

## Reflectance

## Monolayer Grazing Angle Accessory

A dual purpose sampling device to provide the means on in-situ FTIR investigation of films at an air or liquid interface and grazing incidence angle measurements of the thin film coatings on solid reflective surfaces

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 ( $8^{\circ}$  -  $85^{\circ}$ ) using a standard DTGS detector.

Alignment is very easy, as it involves the adjustment of only two mirrors. Conversion from one form to another is achieved by a simple change of sample holders.

In 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, upto  $85^{\circ}$ , allows analysis of thin layers of Langmuir-Blodgett films absorbed on reflective surfaces. Aperture stops are provided to redefine the the beam profile to be at prime position on samples at or near grazing angle to enhance the performance data of semi-conductor materials and films can be evaluated.



### Ordering Information

GS19650 Monolayer Grazing Angle Accessory

**Please specify spectrometer make and model**

*A wide range of polarizers are offered (details on request)*

### Key Features

- Simple alignment
- Easy accessory interchangeability
- High throughput
- Wide incidence angle  $8^{\circ}$  -  $85^{\circ}$
- Interchangeable aperture stops
- Polarizer mount
- Film expansion / compression facility

Illustrations, descriptions and specifications in this datasheet were correct at the time of going to press. However, Specac's policy is one of continuous product development and we reserve the right to change descriptions and specifications at any time.

For the latest details please contact your local Specac office or representative.

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