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Thermo Scientific Smart SAGA Performance Specifications

The Smart SAGA, short for Specular Apertured Grazing Angle, is ideal for grazing incidence analysis of sub-micron films on metallic substrates. The Smart SAGA is extremely easy and delivers superior performance with great sample area discrimination. Simply lay the sample flat on the horizontal sampling serve, position it using the laser-engraved grid, if desired, turn the wheel to set the aperture size, and scan.

Grazing angle reflectance is the technique of choice for analyzing thin coatings or deposits because the high angle of incidence increases the pathlength of the infrared beam through the material of interest, significantly enhancing sensitivity. Monolayer sensitivity is achievable due to the high angle of incidence and selective polarization.

- 80° fixed angle of incidence
- All gold reflecting optics
- Capable of analysis of films from 10 Angstroms to 0.5 microns
- Permanently mounted polarizer minimizes the 'S' polarized light which does not contribute to spectral data at the surface, increasing sensitivity and sampling speed
- Unique internal sliding aperture assembly quickly adjusts to four different shapes and sizes of sample definition so there is no need to set the apertures
- Laser engraved grid on the sampling plate facilitates reproducible sample positioning and masking when performing quantitative analysis



Specifications:

Angle of Incidence: Average 80° fixed

Sampling Area

- Two circular active areas: 5mm and 8mm
- One oval active area: 16 x 8mm
- Open beam

Optics: Gold reflective

Sample Positioning: Laser-engraved measurement grid on sample stage

Polarizer: Germanium

Recommended for:

- Ultra-thin coatings
- Adsorbed species on metal substrates
- Lubricants
- Surface contaminants
- Residues
- Molecular monolayers



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