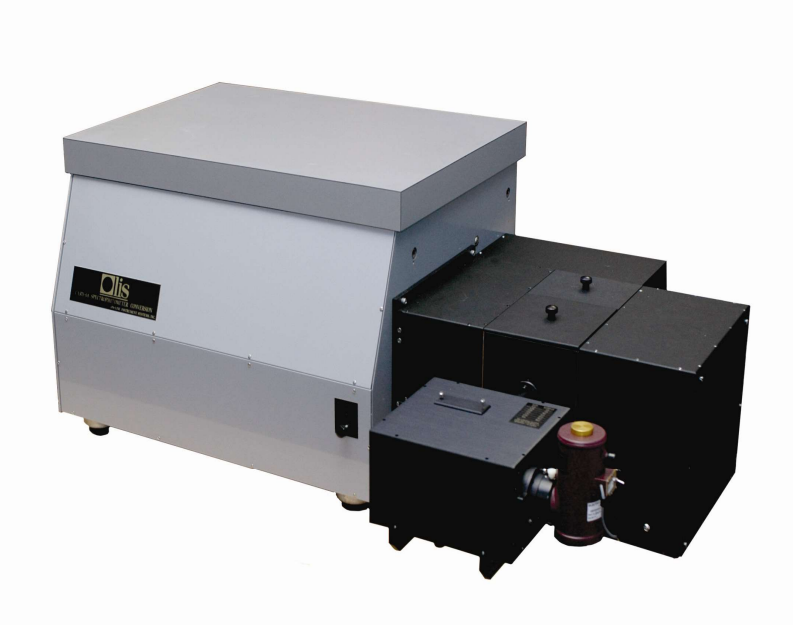
Olis 14F UV/Vis/NIR Spectrofluorimeter



A multiple purpose dual beam spectrophotometer useful for absorbance and fluorescence measurements in the UV, Visible, and NIR regions. True dual beam absorbance acquisition with prism + grating F/8 monochromator using photomultiplier tubes throughout UV/Vis region and PbS detector throughout NIR. Includes detector changeover facilities for moving between PMT and PbS detectors at user selectable wavelengths during absorbance scanning. The monochromator used to produce the absorbance measuring beam also functions as the excitation light source when fluorescence work is required. The monochromator includes computer controlled slits of widths variable during scanning from 0.1 nm to 20 nm. Two exchangeable emission modules, each with its own monochromator, grating and detector (PMT & InGaAs) support scanning fluorescence measurements.

Applications:

High resolution UV/Vis/NIR scanning
UV/Vis & NIR Fluorescence of Carbon Nanoparticles
Diffuse & Specular reflectance of liquid, solid, and powder samples
Characterization of filters, coatings, and optical components

Technical Specifications:

- Double beam
- Prism + grating monochromator
- Exchangeable Tungsten & Xenon arc lamps
- 185 – 2600 nm in absorbance; 185 – 1750 nm in fluorescence
- Exchangeable scanning emission modules
- Angstrom resolution
- < 0.0001% Stray Light

Closest Competitors:

Horiba Jobin Yvon NanoLog

Benefits of the Olis Product:

Excellent optical system with high resolution and low stray light throughout the UV/Vis/NIR
Modular configuration supports multiple applications
Sensitive scanning fluorescence measurements in the UV/Vis & NIR
Continuously adjustable slits allow for constant bandwidth scanning
Modern software for multiple wavelength collection and analysis
Green alternative to replacing a high quality, reliable optical bench

Common Accessory Options:

Rotating Solid Sample Holder
Circular Dichroism Module (NIR compatible)
Stopped-flow for fast kinetic reactions
Water bath for temperature regulation
Titrator for precise mixing capabilities
Integrating Sphere for reflectance measurements