Olis-Modernized Cary 14 UV/Vis/NIR Spectrophotometer

Premium quality optical system built around the most respected and admired monochromator of the last 60 years. True dual beam absorbance spectrophotometer with prism + grating F/8 monochromator using a photomultiplier tube throughout UV/Vis region and a PbS detector throughout NIR. Includes automatic lamp and detector changeover facilities for moving between deuterium (UV) and tungsten (Vis, NIR) lamps and between PMT and PbS detectors at user selectable wavelengths. Frequently employed in NIR fluorescence, reflectance, and CD spectroscopy systems.

Applications:

High resolution UV/Vis/NIR scanning

Diffuse & Specular reflectance of liquid, solid, and powder samples

Characterization of filters, coatings, and optical components

Technical Specifications:

- Double beam
- Prism + grating monochromator (automatic handling of second order light without filters)
- Tungsten & Deuterium lamps
- 185 – 2600 nm
- Angstrom spectral resolution
- < 0.0001% Stray Light

Available upgrades:

Fluorescence scanning (NIR compatible)

Circular Dichroism Module (NIR compatible)

Integrating Sphere for reflectance measurements

Vertex Specular Reflectance Accessory

Stopped-flow for fast kinetic reactions

Titrator for precise mixing capabilities

Water bath or Peltier cell holder for temperature regulation

Thin Film Holder

Benefits of the Olis Product:

Premium quality optical system with angstrom resolution and exceedingly low stray light

Continuously adjustable slits allow for constant bandwidth scanning across full 185-2600 nm range

Olis SpectralWorks software for collection and analysis of single and multiple wavelength data sets

Modular configuration supports upgrades to many secondary applications

Priced 20-50% less than optically similar, mass-produced instruments

Rugged construction with potential for multiple decades of service

Closest Competitors:

Varian Cary 5000/6000

Shimadzu 3600

Perkin Elmer Lambda 850/950

Jasco V-7200