

Olis-Modernized PerkinElmer 983 IR Spectrophotometer

Premium quality optical system built around the most respected and admired dispersive grating Infrared monochromator ever developed. World-renowned for obtaining accurate peak intensity data in the IR, the dispersive grating optical design has been replaced by FTIR's that are incapable of matching the sensitivity of the original configuration. After the Olis modernization, the classic PE 983 operates with all-new Olis electromechanical components and Windows XP computer control. Frequently employed in transmission and diffuse or specular reflectance applications.

Applications:

High resolution Infrared scanning
Diffuse & Specular reflectance of solid and powder samples
Characterization of filters, coatings, and optical components

Technical Specifications:

- Double beam
- Dispersive grating monochromator with four grating turret and nine filters
- Globar light source
- 5000-180 cm⁻¹
- New TGS detector
- Double chopper

Available upgrades:

Specular reflectance - fixed angle
Diffuse Reflectance
Integrating Sphere for reflectance measurements
Vertex Specular Reflectance Accessory



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
Green alternative to replacing a reliable, functional instrument

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