

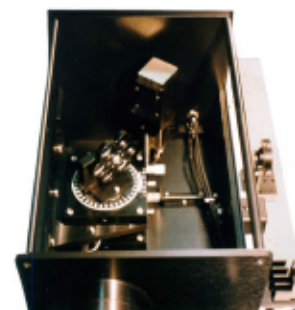
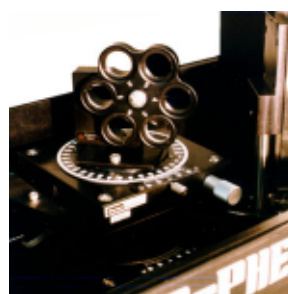
SPECIAL FEATURES

- Continuously Adjustable Sample and Detection Angles
- Vis to IR, wide wavelength range
- Reflectance and Transmission Measurements
- Diverse samples up to 50-mm square
- High performance monochromator
- Reflectometer Model 107



GENERAL DESCRIPTION

McPherson, Inc. Vis IR Spectrophotometers can be equipped in a variety of ways. We have routine reflectometers and special versions for vacuum reflectometry. We can equip these systems with any monochromator from our line so you can specify the wavelength resolution and bandpass you need.



Vis IR Reflectance and Transmittance Spectrophotometer features continuously adjustable sample and detector angles. The reflectometer is easy to use and the new, stabilized single beam spectrophotometer provides improved measurement precision. The double monochromator consists of a prism predisperser combined with the monochromator. This assures low levels of stray light, provides uncontaminated spectra, and eliminates filters. SNAP IN gratings and thermoelectrically cooled detectors permit operation from 190 to 350-nm with Deuterium and 350 to 2500-nm with tungsten sources. Bilaterally adjustable slits allow the user to adjust bandpass for the measurements requirement.

The Vis IR Spectrophotometer is complete with integrated software controls of all acquisition functions. Data is displayed during scans and extensive post processing arithmetic, display and plotting capabilities are included.

Direct angular readout of sample and detector positions. Position locks for optimum repeatability in routine applications (e.g. witness samples.)

Vis IR Spectrophotometer with Reflectometer

Specifications

| | |
|-----------------------------|--|
| Wavelength Range 1: | 195 to 350-nm with Deuterium |
| Wavelength Range 2: | 350 to 2500-nm with Tungsten |
| Spectral Resolution: | 0.1-nm nominal in the Visible |
| Bandpass: | variable from 0.1 to 16-nm |
| Stray Light: | 1 part in 10^{-6} |
| Sample Size: | 50-mm square maximum |
| Sample Angle: | continuously variable from 0 to 89-degrees |
| Detection Angle: | continuously variable from 10 to 180-degrees |
| Transmittance: | sample at 0-degrees, detector at 180-degrees |
| Detector 1: | PMT for 190 to 900-nm |
| Detector 2: | Si for 350 to 1000-nm |
| Detector 3: | PbS for 1000 to 2800-nm |