

Olis RSM 1000 Rapid-Scanning Spectrophotometer

More than a decade after its introduction, the DeSa Subtractive Double Grating Monochromator with Moving Intermediate slit remains unique.

This L-shaped monochromator supports fixed scans ranges of 50, 230, and 500 nm. These ranges are scanned at rates to 1,000 time per second.

Rapid-scanning collection can be maintained for up to 8 seconds at 1,000 scans per second and up to 500 seconds (8.3 minutes) at 1 scan per second.

With recommended Fixed Wavelength ScanDisk cartridge, the monochromator becomes a routine scan UV/Vis, with microsecond fixed wavelength abilities.

Applications:

Kinetic studies in the UV, Vis, and/or NIR of minutes, seconds, milliseconds, microseconds and slower

All studies in the UV, Vis, and/or NIR

Technical Specifications:

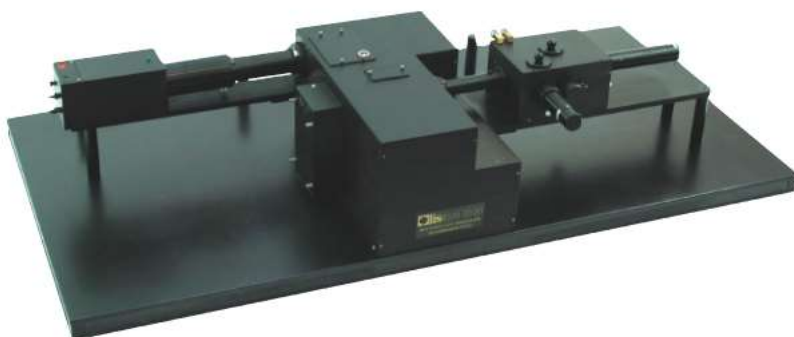
- Millisecond spectral scanning
- Dual beam data acquisition
- Dark current collection between every scan
- Premium grade DeSa subtractive double grating monochromator
- 75W Xenon arc lamp
- 200 – 800 nm standard; anything within 170-2500 nm with appropriately selected hardware

Accessory Options:

Stopped-flow

Flash or laser photolysis accessory

Peltier cell holder



Some Benefits of the Olis Product:

Millisecond Scan rates, supporting collection of up to 8000 scans over 8 seconds or 500 scans over 8 minutes

Microsecond fixed rapid scanning capability for arbitrary lengths of time

Routine scanning with enormous oversampling for best S/N quickly

Stray light sufficiently low to support up to 4.5 AU without reference beam attenuation

Homogenous output beam, independent of spectral bandwidth; ideal for heterogeneous sample preparations

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

Closest Competitors:

None for rapid-scanning. None for modularity
Diode array and CCD systems for (slower) multi-wavelength collection

Edinburgh Instruments for microsecond work