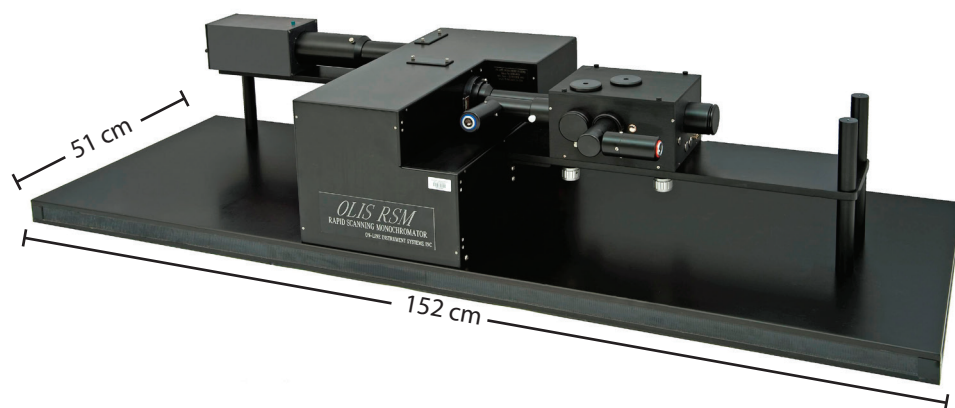


## OLIS RSM 1000

### Millisecond scanning with milliabsorbance sensitivity

Developed for stopped-flow spectroscopy, the "RSM 1000" identifies "Rapid-Scanning Monochromator" capturing "1000 scans/ second." The name used on the 1992 patent is "Subtractive Double Grating Monochromator with Moving Intermediate Slit." Every OLIS product with the numeral "1000" includes this singular performance: milliabsorbance sensitivity with millisecond scan rates. In addition, when used in single wavelength mode, the acquisition rate becomes 1000 points per 2 milliseconds, perfect for laser/ flash photolysis.



### Standard Acquisition Mode: Absorbance

### Enhancements Supported:

- CLARITY
- Circular Dichroism
- Circularly Polarized Luminescence
- Fluorescence
- Phosphorescence Lifetime
- Peltier Thermal Control
- Stopped Flow
- Thin Film Holder
- Titrator

### OLIS RSM 1000 SPECIFICATIONS

Wavelength Range	200 - 800 nm
Monochromator	Subtractive Double Grating with Moving Intermediate Slit; 50 mm x 50 mm halographically blazed gratings, select among UV/Vis or Vis/NIR
Light Source	75 watt xenon arc lamp; 150 watt xenon arc lamp with CD
Scan Rate	Millisecond over hundreds of nanometers with 1 nm resolution standard; many alternatives available
Mode of Detection	2 PMTs, UV/Vis optimized; NIR available with InGaAs; option of photon counting for fluorescence
Stray Light Rejection	< 0.001 %
Single Wavelength Acquisition	Up to 20 MHz for arbitrary lengths of time
Intermediate Slit	16 slits, spins at 62.5 Hz to achieve 1000 scans per second Dark: 50 microsecond dark period between each millisecond scan