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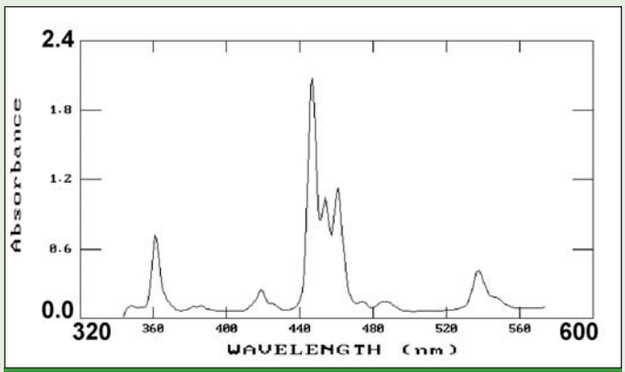
Find the *Olis RSM 1000* at our website: ***Click HERE***

The Olis® RSM-1000 rapid-scanning spectrophotometer is faster, more sensitive, more sample-economy conscious, more modular; and is equipped with "fantastic[1]" software.

With an Olis® RSM 1000, you will get perfectly reliable and reproducible results, quickly, easily, economically, and in a wide range of experimental cases.

Milliabsorbance readings in milliseconds

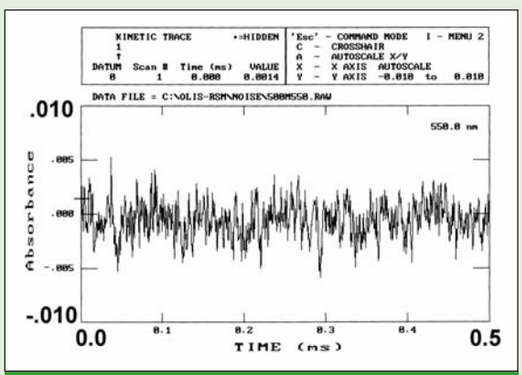
While the Olis® RSM 1000 is collecting 1,000 scans per second, its dual beam, double grating hardware is supporting milliabsorbance sensitivity.



1 msec spectrum, holmium oxide filter

Milliabsorbance readings in microseconds

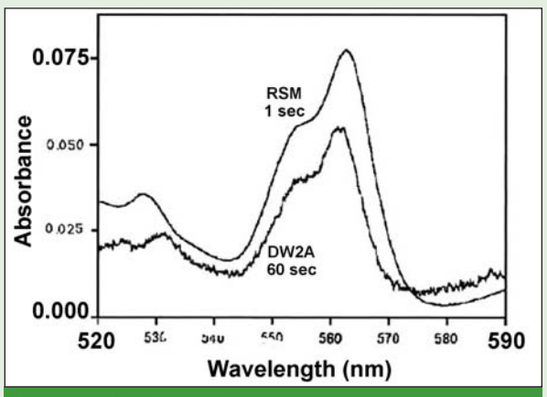
Collect 1,000 points per millisecond with the dual beam, double grating spectrophotometer and obtain results with noise in the fourth and fifth decimal places in seconds.



500 µsec trace, 0.001 AU RMS noise

Correct Absorbance Readings on Turbid Samples

Collect accurate absorbance readings on cytochromes, mitochrondia, tissue suspensions, and other scattering samples. (Dual wavelength is a subset of hundreds of wavelengths.)



Courtesy of Dr. Bernard Trumpower.

Utility into the NIR

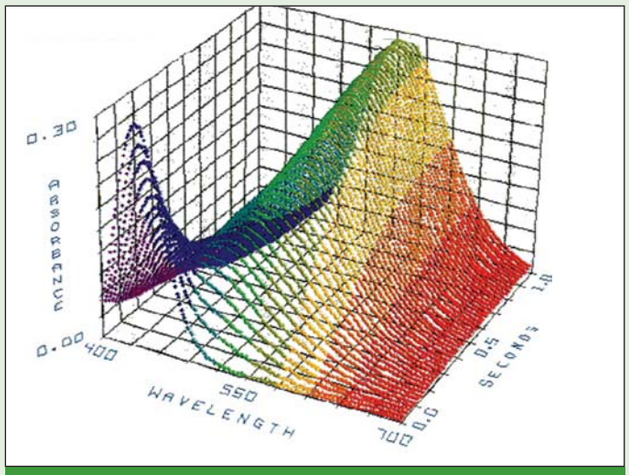
Economical and easily added gratings and InGaAs detectors expand the utility of the Olis® RSM to 2600 nm, making the Olis® RSM 1000 the only NIR spectrophotometer in the world capable of millisecond spectral scan rates.

Utility into the deep UV

Economical and easily added gratings and deep UV detectors expand the utility of the Olis® RSM to 167 nm, making the Olis® RSM 1000 the only spectrophotometer in the world capable of producing subsecond UV spectra.

All the Data with One Stopped-flow Shot

Stopped-flow shots #1 and #2 fill the tubing, shot #3 gives you kinetics at hundreds of wavelengths; shot #4 confirms the results obtained with shot #3.



≤ 150 µL solution, 1 second, 1 stopped-flow shot!

Automatic Collection and Averaging

Fire external photolysis sources (lasers, LED, pulse lamps, other) with the Olis® software repetitively as a function of time or wavelength; the software will treat the ensemble of records as a family for averaging or other processing.

Subnanometer resolution for highest resolution samples

Select gratings for the DeSa monochromator of the Olis® RSM 1000 to have 1200 or 2400 lines/ mm, so as to obtain 0.6 or 0.3 nm spectral resolution, respectively.

Most Popular Gratings for the Olis® RSM (DeSa Mono)

Blaze Wavelength	Ruling density lines/mm	Linear Dispersion (nm/mm)	Resolution[1] (0.2 mm slit) nm	Wavelength Span nm	Wavelength Range[2] nm	
230	2400	1.54	0.3	38	150-350	CD
300	600	6.15	1.2	154	200-450	Ultraviolet
500	400	9.22	1.8	231	330-750	Visible
500	1200	3.07	0.6	77	330-750	Visible
1000	600	6.15	1.2	154	670-1800	NIR

Special Application Gratings

405	3600	1.03	0.2	25.7	270-610
500	150	24.6	4.9	616	330-750

[1] Resolution values based on nominal intermediate slit width of 0.2 mm.

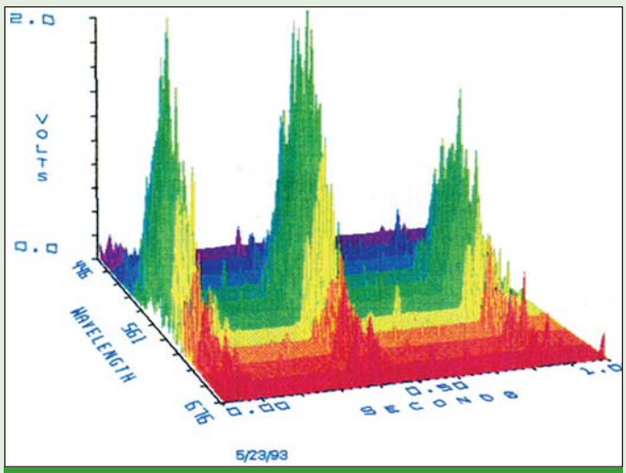
[2] Wavelength range based on a 2/3 blaze to 3/2 blaze.

[1] The "fantastic" comes from all who see the software operate. We challenge you to see the software operate and not exclaim the same!

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Fluorescence Emission Readings

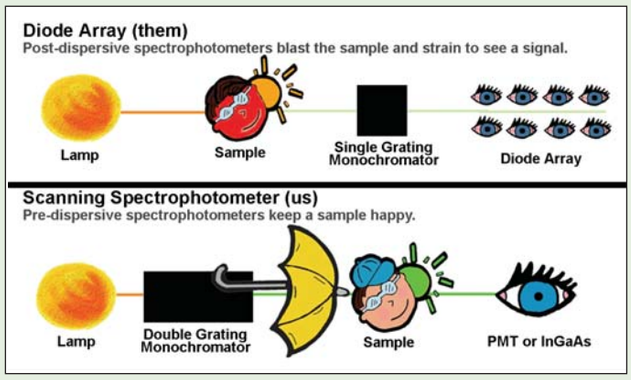
Run the light through the DeSa monochromator in either direction, so as to use it as a scanning (rapid-scanning) **producer** of light or a scanning (rapid-scanning) **detector** of light.



Three firefly flashes, one animal, one second collection time.

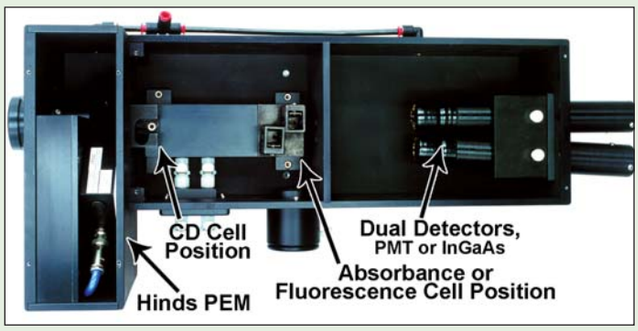
Monochromatic Illumination

Gentle monochromatic light is used for all measurements, so that photolabile samples can be studied safely and successfully. Sample is measured **only** with the appropriate wavelengths: broadband light and stray light—inherent in diode array systems—are never a concern.



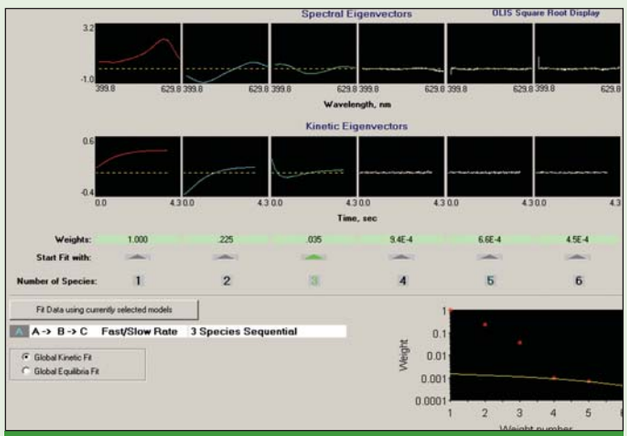
Digital Circular Dichroism Spectroscopy

Do fixed wavelength stopped-flow CD, scanning CD, or rapid-scanning CD by adding the Olis DSM CD module, a self-contained sample compartment for true dual beam CD, FDCD, and variations thereof.



Modern Algorithms for Correct Conclusions, Fast

Analyze kinetic and spectral results, graphically and numerically! Work with data files of any size up to 4000 scans of 500 points per scan! Time start to finish: 1-2 seconds. Starting values needed: usually 0. Equations available: 59 chemical models for 3D data; 24 for 2D.



Results of SVD clearly indicate 3 species.

Rapidly Varying Monochromatic Light: All the Advantages, Exclusive to the Olis® RSM 1000

"One of the reviewers said there is no way that you can do optical stopped-flow studies with a B12 compound, yet there it is, because unlike a diode array, you are not blasting the hell out of the sample with white light in the RSM."

— **George Reed** of *University of Wisconsin* after obtaining beautiful data on a photoliable B12 compound (data accepted and published in *Biochemistry*, 2000)

Absorbance standard: 75 watt Xe
CD: 150 watt ozone producing Xe
Optional, 450 watt Xe (fluorescence)

DeSa F/4.4 subtractive double grating monochromator with moving (or fixed) intermediate slit. Can be used as a single grating monochromator, too. Choose gratings and slit widths for one or many experimental cases.

Sample compartment, containing one or two 1 cm² cuvette holders, or a stopped-flow mixing unit, or a Peltier cell, or a cryogenic flask, or nearly any other sample holder for steady-state or variable sample condition studies.



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