

Full Spectral Kinetics in One Experiment

With the TEKTRONIX 7J20-RSS, it is now possible to record the entire absorption spectra of stopped-flow experiments in real time from 250 nm or less in the UV region to 1100 nm in the near IR. This allows you to observe the kinetic spectra of enzyme reactions, including intermediates and spectral changes; test quantitative data to fit kinetic equations; analyze standard reactions for perturbations; and perform many other procedures that require information from the UV, visible, and near IR regions.



The 7J20-RSS has two gratings. One gives you a 400-nm spectral window with 4-nm resolution. The other, blazed especially for the ultraviolet region, gives you a 200-nm window with a resolution of 2 nm. This grating, in combination with the proper light sources, enhances the performance of the instrument in the ultraviolet. The 7J20-RSS measures absorption spectra from 250 nm to 1100 nm in units of absorbance or transmittance, and displays the spectra as rapidly as it scans them (400 nm as fast as 4 ms).

For complex analyses of spectral data, the 7J20-RSS can be used with a Digital Processing Oscilloscope, which provides software-controlled data acquisition, processing, and analysis. The processor acquires the information, and the controller stores it, as rapidly as the spectra are scanned. The controller calculates the absorption spectra and further analyzes the kinetic data. The results may then be displayed on the crt or a graphic terminal, or recorded as hard copy. The 7J20-RSS will easily interface with commercial or custom-made stopped-flow kinetics instruments. But chemical kinetics is only one of its possible uses in the chemist's lab. The 7J20-RSS can also help you perform absorption or luminescence spectroscopy or measure the spectral characteristics of virtually any light source in your laboratory.

For a demonstration or application assistance, contact your nearest Tektronix Field Office or Analytical Instruments Marketing, (503) 644-0161, ext. 7505. For complete information, write Tektronix, Inc., P.O. Box 500, Beaverton, Oregon 97077.



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