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Modular Spectrometer Delivers High Performance in Compact Footprint



Since the introduction of the first commercially viable modular spectrometers in the early '90s, councesslve generations of these versaller instruments have demonstrated significant improvement across key performance indicators inolating signal to noise ratio (SNR), optical resolution, scan rates, stray light and financing.

The Cosen SR2 spectrometer is part of the revent generation of modern modular spectrometers. The spectrometer has a proprietary knear COD-array detector, enhanced electronics that provide high-speed spectral acquisition (integration times to 10 (µg), and a novel optical bench design first delivers exertlent SNR (380.1) performance for absorbance measurements

Absorbance of Optical Filters

Joing an Ocean SR2 spectrometer with a balanced deuteriim-tungsten halogen light source and an optical filter holder, we measured various combinations of ortical color; balancing

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In this application note, we share spectra that demonstrate performance characteristics of the Ocean SR2, a modular UV-Visible spectrometer. We evaluate the effectiveness of the Ocean SR2 for measuring absorbance of optical filters and demonstrate how its high optical resolution performance and balanced (or "flatter") spectral response help to mitigate typical modular spectrometer performance trade-offs.

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