



USB2000+ Spectrometer

The USB2000+ is a versatile, general-purpose UV-Vis spectrometer for absorption, transmission, reflectance, emission, color and other applications between 200-1100 nm. Its compact size, robust optoelectronics and easy modularity make it one of the most popular spectrometers in the world, supporting thousands of applications.





At a Glance

Size: 89.1 mm x 63.3 mm x 34.4 mm

Weight: 190 g

Wavelength range: Grating dependent within 200-1100 nm

Signal-to-noise ratio: 250:1 (at full signal)

Dynamic range: 8.5×10^7 (system); 1300:1 for a single acquisition

Integration time: 1 ms - 65 s (20 s typical)



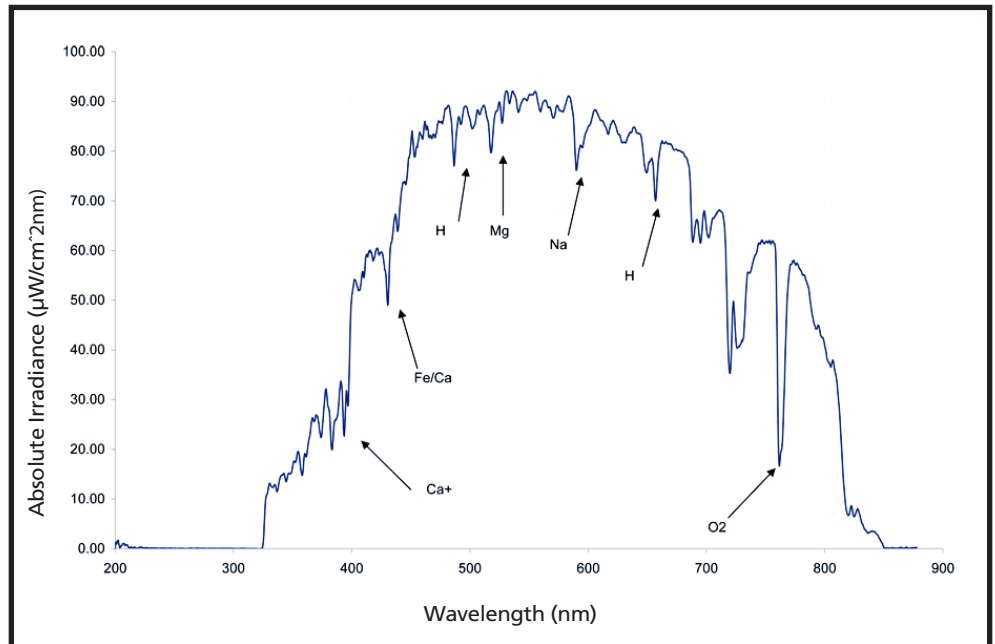
Learn more online at www.oceanoptics.com

Contact an Ocean Optics Application Scientist for details and pricing

Flexible Design, Great Performance

The USB2000+ is a modular spectrometer. You can select a model that is preconfigured for a particular application or you can build your own. Our Application Sales Engineers help you with selection of grating, slits and optical bench accessories, as well as sampling accessories such as fibers, light sources, sampling holders, filter holders, flow cells, fiber optic probes and integrating spheres.

At the heart of the USB2000+ is a 2048-element CCD array detector in a robust, high-speed optoelectronic design that provides remarkable performance for a spectrometer its size. Depending on configuration, sub-nanometer optical resolution is possible, and rapid acquisition rates allow users to capture and store up to 1,000 full spectra every second. Also, the spectrometer's detector has a UV-sensitive coating that makes the system versatile enough for UV-Vis and Vis-NIR performance.



Absorption bands of atmospheric elements are easily identifiable in this solar irradiance spectrum measured with a USB2000+ spectrometer and cosine corrector.

Features

- Great response across the 200-1100 nm wavelength range
- Hundreds of configurations possible with modular design
- Built-to-suit wavelength range and optical resolution performance
- High-speed electronics for capturing and storing up to a thousand spectra per second



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