Maya2000 Pro

Deep UV Spectrometer

Maya2000 Pro Spectrometers are a great choice for applications requiring high sensitivity, good UV-NIR response and wide dynamic range. Applications range from low light fluorescence and Raman measurements to absorbance, transmission and emission analysis.

Each Maya2000 Pro has a back-thinned 2D FFT-CCD detector in a robust, configurable optical bench with low-noise electronics and low-jitter triggering capabilities. Accessory and bench options allow users to optimize systems for setups ranging from the vacuum VUV (as low 165 nm) to the Vis-NIR (especially in the region <780 nm).

Ocean Optics

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At a Glance

Size: 148.6 mm x 109.2 mm x 49.3 mm (including feet)

Weight: 0.96 kg (without power supply)

Spectral range (depends on detector and grating selection):

- **~165-1100 nm (response w/Hamamatsu S10420 detector)**
- **~400-1180 nm (response w/Hamamatsu S11510 detector)**

Signal-to-noise ratio: ~450:1

Dynamic range: 15000:1 (typical)

Integration time: 7.2 ms-5 seconds

Configurable for vacuum UV (<190 nm) applications

Also available: Preconfigured models for good Vis-NIR response (Maya2000 Pro-NIR, 780-1180 nm) and low stray light performance (Maya LSL, 360-825 nm)

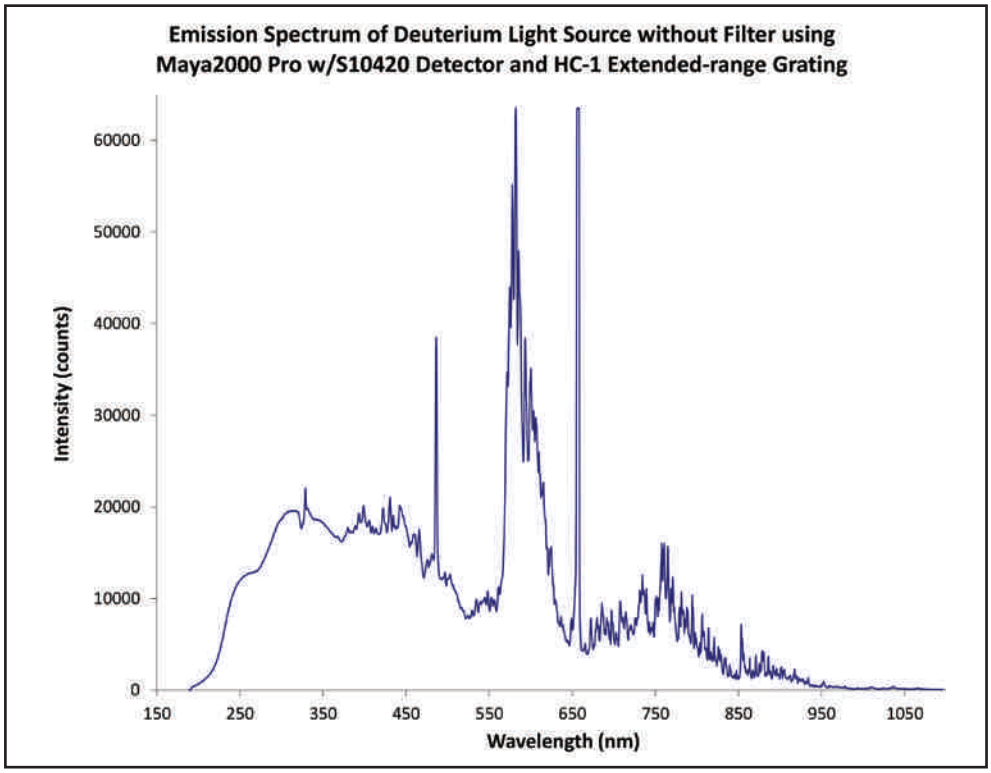
Learn more online at www.oceanoptics.com

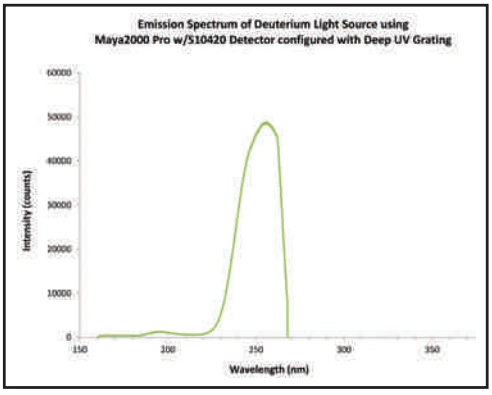
Contact an Ocean Optics Application Scientist for details and pricing

High Sensitivity, Great UV Response

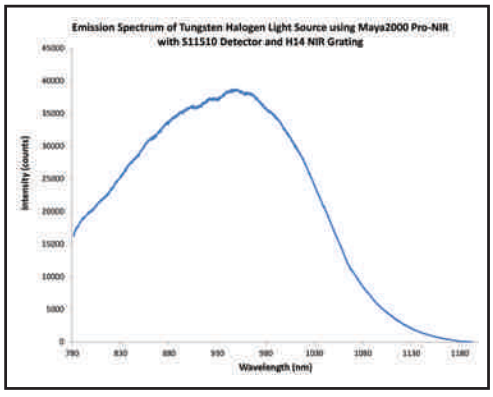
Maya2000 Pro has very good response across the UV and is a great choice for vacuum ultraviolet applications such as analysis of semiconductor materials, measurement of biological samples and noble gases, and determination of chemical elements such as sulfur.

Because the Maya2000 Pro optical bench is so versatile, it can be configured with your choice of two different detectors, each with multiple grating and accessory options. For example, when used with the S10420 detector, Maya2000 Pro can be configured for UV-Vis measurements (top graph) or to take advantage of its detector's excellent deep UV response (graph at bottom left). For applications across the Vis-NIR and for Raman analysis, the S11510 detector at the heart of the Maya2000 Pro-NIR (graph at bottom right) is an excellent choice.





Maya2000 Pro configured for the vacuum UV



Maya2000 Pro-NIR configured for the Vis-NIR

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