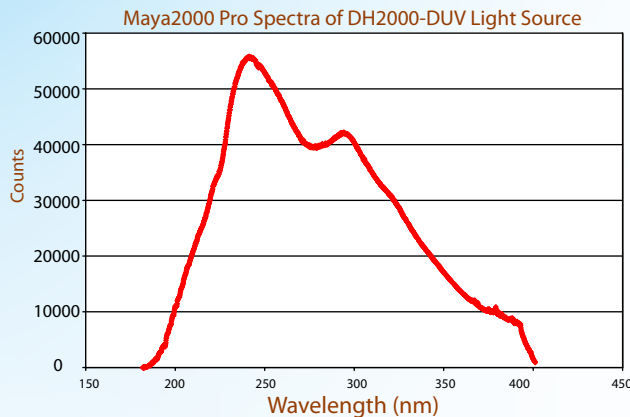


Maya2000 Pro Spectrometer

high sensitivity and deep UV measurement

The flagship Maya2000[®] Pro offers high quantum efficiency, high dynamic range and is responsive in the deep UV (~185-300 nm). This back-thinned 2D FFT-CCD spectrometer uses the Hamamatsu S10420 detector and is perfect for applications that require higher quantum efficiency over a broader spectral range.

Starting at \$5,800
Light Source and Accessories Additional



- USB 2.0 interface
- Low-noise electronics
- Optical resolution to ~0.035 nm (FWHM); resolution depends on groove density of grating and size of entrance aperture (slit)

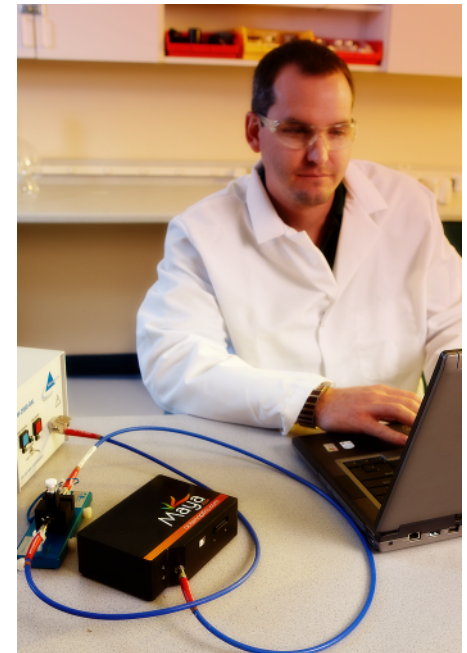
Detector

Type:	Hamamatsu S10420
Architecture:	Back-thinned, 2D
Thermoelectric cooling:	No
# of Pixels:	All: 2068 X 70 Active: 2048 x 64
Pixel size:	14 μ m square
Detector active area (mm):	28.672 horizontal x 0.896 vertical
Well depth:	200Ke-
Peak QE:	75%
QE @ 250 nm:	60%

Spectrometer

Integration time:	6 ms - 5 seconds
A/D converter:	16 bit, 500 kHz
Dynamic range (typical):	12000:1
Signal-to-noise ratio:	450:1
Non-linearity (uncorrected):	~4.0%
Non-linearity (corrected):	<1.0%
Column sensitivity:	~0.32 Counts/e-

- 14 grating options including optional HC-1 composite grating for coverage from 175-1100 nm (additional charge)
- Slits available in widths of 5, 10, 25, 50, 100 and 200 μ m
- Optional order-sorting filters to eliminate second- and third-order effects



- Fully controllable strobe signals (single or continuous)
- 10 onboard digital user-programmable GPIOs



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