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## NIRQuest rentals

<https://shop.spectrecoology.com/product/r8-nir-spectrome...est512-2-2-nir-2/>

InGaAs array based spectrometer for 900-2200nm range. The NIRQuest features a cooled enhanced 512 element InGaAs array, fiber optic input, USB operation and a wide variety of fibers and light sources for absorbance, reflection or emission measurements. Rent is by the week. Please call with your requirements for sampling optics and to reserve a date. System can be set up for measuring absorbance, reflection or spectro-radiometry:

**Absorbance** -- integrated VIS-NIR light source (ECOVIS) with holder for 1cm cuvettes

**Reflection** -- 6 around 1 fiber optic reflection probe, with ECOVIS light source

**Radiometry** - fiber with cosine corrector, factory calibrated for irradiance and radiance

### Engineering Specifications

#### NIRQuest512-2.2

Dimensions:	182 x 110 x 47 mm
Weight:	1.18 kg (without power supply)
Detector:	Hamamatsu G9206-512W InGaAs linear array
Wavelength range:	900-2200 nm w/Grating NIR2
Integration time:	1 ms – 1 s
Dynamic range:	7.5 x 10 <sup>6</sup> (system); 10000:1 for a single acquisition
Signal-to-noise ratio:	10000:1 @ 100 ms integration
Dark noise:	6 RMS counts @ 100 ms; 12 RMS counts @ 250 ms
Grating – standard:	Grating NIR2, 100 l/mm, 900-2050 nm
Grating – custom:	NIR2, NIR3, NIR10, NIR11, NIR12 and NIR13
Standard slit:	25 µm
Custom slits:	10 µm, 50 µm, 100 µm and 200 µm (or no slit)
Order-sorting:	OF1-RG830 longpass NIR filter (optional)
Optical resolution:	~5 nm FWHM w/25 µm slit
Fiber optic connector:	SMA 905

- Rental units limited to US