

NIRQUEST

improved performance with more grating options



A high-performance optical bench, low-noise electronics and various grating options make NIRQuest Spectrometers truly extraordinary. This new generation of small-footprint, near-infrared spectrometers is available in three models that cover various ranges between 900 nm and 2500 nm, and are ideal for applications ranging from analyzing moisture content in food and beverage products to analyzing trace metals in wastewater. In addition to improved optical bench performance, NIRQuest Spectrometers are available with more grating options than our previous NIR Spectrometers. That allows users to take advantage of the different grating characteristics to maximize experiment setups.

Starting at \$15,000
Base spectrometer only

	NIRQuest512	NIRQuest256-2.1	NIRQuest256-2.5
Detector:	Hamamatsu G9204-512	Hamamatsu G9206-256	Hamamatsu G9208-256
System range:	900-1700 nm	900-2100 nm	900-2500 nm
Entrance aperture:		25 µm (standard); other slit widths available	
Order-sorting filter (optional):		Yes, with OF-1-RG830 longpass NIR filter	
Gratings:	Multiple grating options covering the entire range of each NIRQuest detector		
Optical resolution (FWHM):	~4.0 nm w/25 µm slit	~7.9 nm w/25 µm slit	~10.6 nm w/25 µm slit
Signal-to-noise ratio at full signal:	10000:1 @ 100 ms integration; SNR decreases at longer integration times	10000:1 @ 100 ms integration; SNR decreases at longer integration times	7500:1 @ 10 ms integration; SNR decreases at longer integration times
Integration time:	1 ms – 10 seconds	1 ms - 1 second	1 ms – 60 milliseconds
Data transfer speed:		Full scan to memory every 5 ms with USB 2.0 port	
Trigger modes:		Two modes	
Connector:		SMA 905	