

QE65 Pro科研及光谱仪

产品名称	QE65 Pro科研及光谱仪
公司名称	长春海洋光电光学有限公司
价格	100.00/台
规格参数	品牌:海洋 型号:齐全 光学分辨率:
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产品详情

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qe65 pro scientific-grade spectrometer

the qe65 pro is our next-generation scientific-grade spectrometer with high sensitivity and low stray light
make it ideal for a wide range of low light level applications such as fluorescence, dna sequencing and

the enhanced qe65 pro has an athermal design that promotes excellent spectrometer wavelength stability
functions for providing accurate timing and synchronization between the spectrometer and other devices

slit design for added convenience. an extensive range of gratings offers flexibility in optimizing a

robust optical bench

the qe65 pro is the result of feedback from customers like you who appreciate high performance at a reasonable price. we appreciate the flexibility of our modular approach to miniature spectroscopy. consider some of the enhancements we've made to the qe65 pro:

availability of new gratings, selected for their optimal wavelength range and stray light performance

new optical bench components that more efficiently manipulate light for greater throughput and higher resolution

sma 905 connector assembly with replaceable slit design for added convenience and excellent performance

changes to the optical bench and its components that promote excellent spectrometer wavelength range and resolution

back-thinned detector

at the heart of the qe65 pro is a hamamatsu fft-ccd detector distinguished by its high quantum efficiency, low dark signal, and low etalon characteristics. unlike linear ccds, the 2d area detector in the qe65 pro allows us to bin a single row of pixels, which offers significant improvement in the signal-to-noise ratio (>1000:1) and signal processing speed. the back-thinned detector.

what's more, the te-cooled (down to -15 °c) detector has low noise and low dark signal, which enable high sensitivity detection and long integration times -- from 8 milliseconds to 15 minutes, with virtually no spectral drift.

ideal for raman

the qe65 pro is a great choice for fluorescence and low light level applications and is particularly well suited for raman spectroscopy. for raman, we offer a 900 mm⁻¹ grating (#h36) that is blazed at 500 nm and has good performance at 500 nm and 785 nm laser illumination wavelengths typical of raman.

in this setup, the qe65 pro anchors a modular, probe-based raman system. you'll note a bifurcated optical fiber with one leg coupled to a 785 nm laser (in middle of photo) and the other to the spectrometer. cuvette-based raman spectroscopy is also possible.

at a glance

wavelength range:	grating dependent
optical resolution:	~0.14-7.7 nm (fwhm)
signal-to-noise ratio:	1000:1 at full signal
a/d resolution:	16 bit
dark noise:	3 rms counts
dynamic range:	7.5 x 10 ⁹ (system), 25000:1 for a single channel
integration time:	8 ms - 15 minutes
stray light:	,0.08% at 600 nm; 0.4% at 400 nm
corrected linearity:	>99%
grating options:	multiple grating options - uv through visible

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