



EnSpectr L405[®]

Luminescence Analyzer

The **EnSpectr L405[®]** sets new records at blue-violet wavelengths. It is unique luminescent analyzer that unites highest resolution and superior sensitivity in a compact design. **EnSpectr L405[®]** is based on a proprietary technology, developed by Enhanced Spectrometry for demanding measurement tasks in both scientific research and industrial applications.

EnSpectr L405[®] utilizes a 30 μm entrance slit, 1200 g/mm grating and cutting-edge low pass filter. The luminescence is excited by a 100 mW semiconductor laser at 405 nm to provide a single shot luminescence spectrum in the spectral range from 450 nm to 770 nm.

EnSpectr L405[®] comes with a low-noise 3648-element linear-array CCD detector operating at room temperature and a state of the art system for suppressing the Rayleigh scattering signal and the straight laser light.

EnSpectr L405[®] has an onboard programmable microcontroller that provides flexibility in controlling the spectrometer and accessories. The controlling software is user friendly-designed, and could be easily modified for different applications.

OEM solutions are provided upon request.



Features

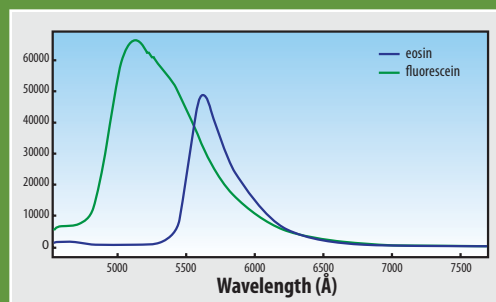
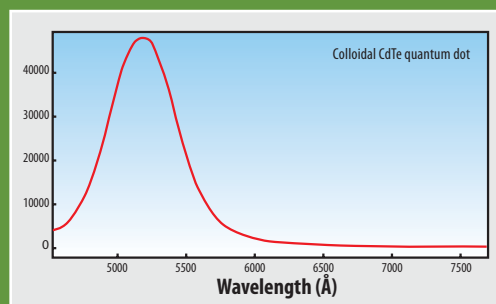
- > Outstanding performance
- > Superior sensitivity
- > Highest resolution

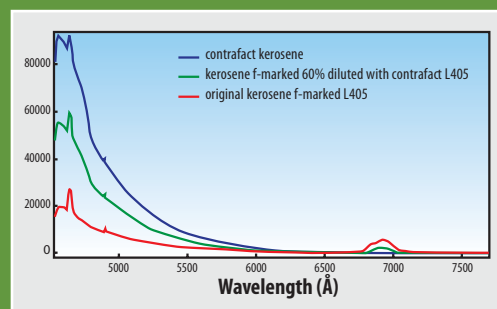
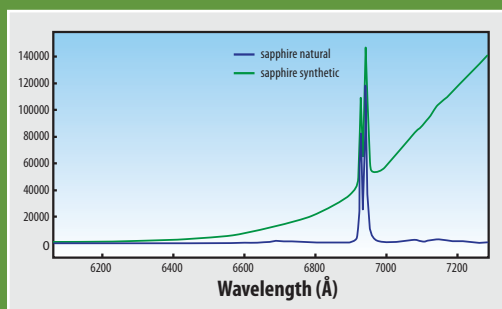
Benefits

- > Lightweight and portable
- > Versatility and easy-of-use
- > Fast and reliable results

Applications

- > Food and beverage control
- > Chemical processes
- > Medical diagnostics
- > Fuel quality control
- > Semiconductors
- > Gemology
- > Science
- > Paints





EnSpectr L405® Luminescence Analyzer Specification

Laser		Spectrometer	
Laser Wavelength	405 nm	Luminescent Spectral Range	450–770 nm
Output Laser Power	10–15 mW	Spectral Resolution depending on spectral range	0.45–0.6 nm

Detector		Optical Bench	
Detector	Linear CCD Array	Focal Length	60 mm
Pixel Number	3648	Entrance Aperture	30 μ m wide slit
Pixel Size	8 μ m x 200 μ m	Grating	1200 g/mm holographic grating
Dark Current	630 e/pixel/s		
Readout Noise	30 e rms		
Dynamic Range	2100		
Integration Time	10 ms – 500000 ms		

Electronics		Physical	
Computer Interface	USB 2.0	Dimensions	230 mm x 146 mm x 55 mm
Power Input	100 – 240 VAC, 50 – 60 Hz	Weight	1 500 g
System Requirements	Windows XP/Vista/7		



Enhanced Spectrometry Inc.

delivers innovative portable Raman and luminescent spectrometry solutions, specialized software and services across a broad range of industries worldwide.

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