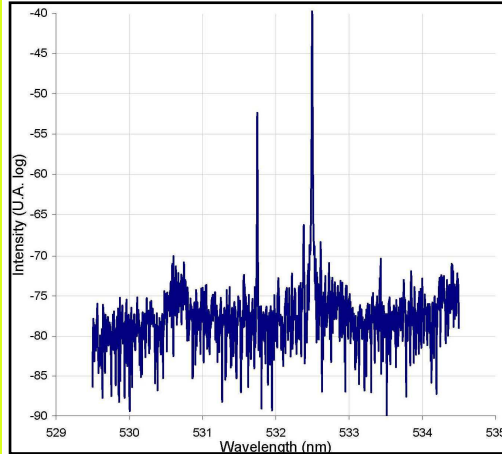


## SLIM series: Low Noise or Single Longitudinal Mode?

### Low Noise version



The Low Noise version is the most cost-effective solution for **fluorescence or Rayleigh scattering applications**.

The peak wavelength warranted in a  $\pm 1$  nm range around the nominal wavelength ensures an efficient light-matter interaction.

The monolithic resonator guarantees a low noise, mode-hop free, and therefore stable operation.

For applications requiring narrow linewidth, such as Raman scattering or interferometry, please refer to the description of the Single Longitudinal Mode version.

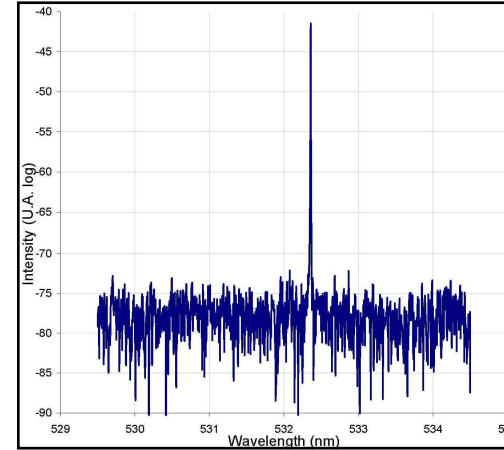
#### Examples of applications:

- Confocal microscopy
- TIRF (Total Internal Reflection Fluorescence) microscopy
- Flow cytometry
- Cell sorting
- Granulometry
- Photo-manipulation, photo-stimulation, Uncaging
- Fluorescence, autofluorescence and luminescence excitation
- Rayleigh and Mie scattering

#### Key specs:

- Optical noise  $< 0.2\%$  rms
- Power stability  $\pm 1\%$  p-p
- Wavelength range  $\pm 1$  nm

### Single Longitudinal Mode Version



The Single Longitudinal Mode (SLM) version is specifically designed to serve **applications with stringent spectral requirements**.

The monolithic resonator guarantees the coherence length, narrow linewidth, frequency stability, and mode-hop free operation.

Each laser is configured and tested in order to ensure the SLM operation.

#### Examples of applications:

- Raman scattering
- Interferometry
- Metrology
- Shearography
- Holography
- LDV (Laser Doppler Velocimetry)
- Frequency conversion

#### Key specs:

- SLM emission
- Spectral linewidth  $< 1$  MHz or  $< 0.1$   $\text{cm}^{-1}$  FWHM
- Coherence length  $> 10$  m
- Long term wavelength stability  $< 1$  pm

**A different application? Please contact us!**

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