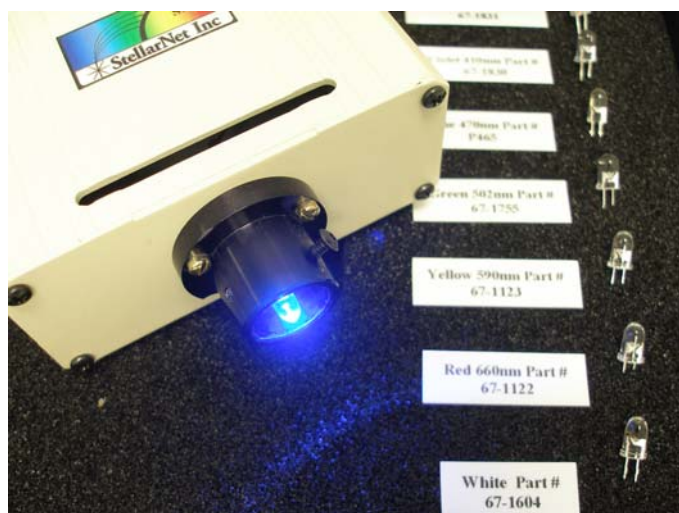
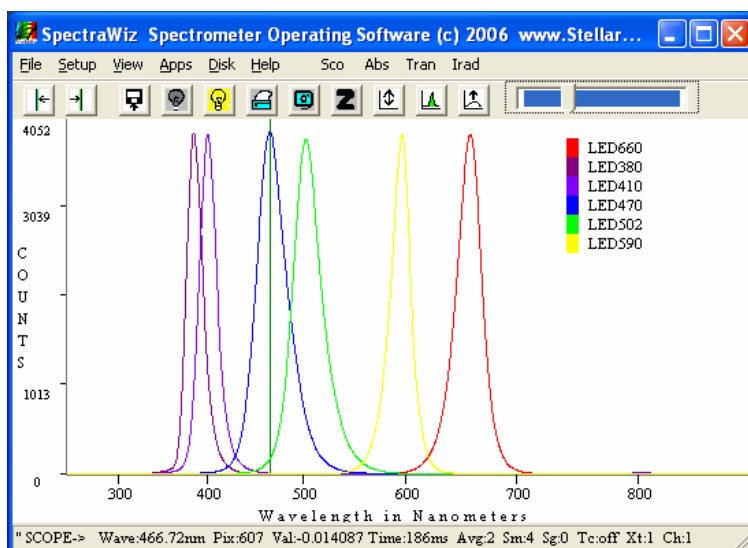


# SL1-BLUE and SL1-LED Excitation Sources



- **Spectral Range-** LED dependant, optional white.
- **Extensive Life-** LEDs have extremely long life.
- **Flexibility-** user replaceable LEDs take less than a few seconds to replace.
- **Small Footprint-** only 1.5" x 3" x 3.5".
- **Maximum Flexibility-** Swappable LED option.
- **Powered Flexibility-** 12VDC standard or 5VDC option.

- **The SL1-Blue** is a miniature light source with a very bright 470nm LED installed. A collimating lens is installed just in front of the SMA fiber optic connector output used for fluorescence excitation.
- **The SL1-LED** includes a nose cone assembly with an LED kit consisting of 6 LEDs plus a White LED. LEDs can be swapped without any wiring changes, just pull one out and push the next one in. Each LED can be used to induce fluorescence in many experiments. 470nm LED works best for Riboflavin (vitamin D). Other wavelengths can be found more optimal for use with different species chemistry.
- **SL1-BAT** is a unique option that adds a jack to the SL1 so it can be powered from 5VDC. Users can achieve complete portability with the BP1 battery pack for the spectrometer *and* the SL1-BAT.



LED Emission Spectra can be used for Fluorescence Excitation

## Excitation Sources and Accessories

| Item     | Description  |
|----------|--|
| SL1-Blue | Miniature fiber optic light source with bright blue LED at 470nm for excitation.   |
| SL1-LED  | Miniature fiber optic light source with replaceable LED. Includes LED-Kit with set of 6 LEDs: LED-410, LED-470, LED-502, LED-590, LED-660, LED-white |
| SL1-BAT  | Option connector allows +5V battery operation  |

## Specifications

|                                 |  |                                  |                |
|---------------------------------|--|----------------------------------|----------------|
| <b>Weight</b>                   | 0.62 pounds (280 g)                      | <b>Output to bulb</b>            | 5VDC           |
| <b>Power consumption</b>        | 0.5 watts                                | <b>Output regulation</b>         | 0.2%           |
| <b>Spectral range</b>           | Depends on LED installed                 | <b>Internal filter accessory</b> | 2" filter slot |
| <b>Time to stabilize output</b> | ~ 1 second                               | <b>External filter slot</b>      | 0.5" diameter  |
| <b>LEDs in Kit</b>              | 410, 470, 502, 590, 660nm, and White LED | <b>LED life</b>                  | 100,000 hours  |
| <b>LED Type</b>                 | T-5 mm                                   | <b>Connector</b>                 | SMA 905        |