

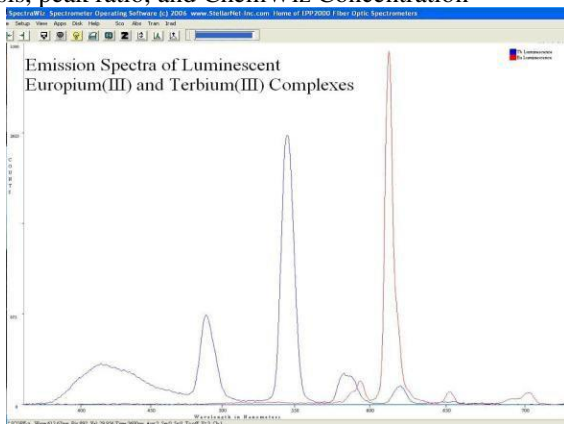


Low Cost Fluorescence System

StellarNet's low cost fluorescence systems offer a complete solution for any chemical analysis in the lab or the field. At the heart of each system is the **BLACK-Comet** research grade spectrometer which features the benefits of the holographic concave grating to produce superb spectral imaging, uniform resolution, enhanced UV sensitivity, and the lowest stray light values possible. **Higher Signal to Noise** can be achieved by using a detector which has an integrated Thermo Electric Cooler (TEC) maintained at $-10\text{ }^{\circ}\text{C}$ from ambient and stabilized within $\pm 0.1\text{ }^{\circ}\text{C}$, recommended when integrating longer than 3000ms for extremely weak emission.

DWARF-Star NIR InGaAs spectrometers cover the 900-1700nm with optional 512 or 1024 pixel cooled photodiode arrays.

SpectraWiz software is included free with every spectrometer and offers advanced spectral analysis features such as time series analysis, peak ratio, and ChemWiz Concentration Analyzer.



Fiber Optic Sampling Accessories

Liquid Samples are measured using the CUV-F liquid fluorescence fixture which includes a larger base to accommodate the SL1-LED excitation source. This also includes a 600 micron Y-fiber for dual-90° emission pick-up resulting in a 2x enhanced signal collection.

Solid and Powdered Sample Measurements are also possible by use of an easy to use fluorescence probe which fiber optically couples to the LED excitation source and spectrometer.

LED excitation source is ideal for low cost fluorescence measurements at any range. The SL1-LED light source includes an LED kit consisting of 6 standard LED's (410nm, 470nm, 502nm, 590nm, 660nm, and White). Additional LED's can be easily and quickly swapped without any wiring changes.

Item	Description
SL1-LED	Miniature fiber optic light source with replaceable LED's. Includes LED-Kit with set of 6 LEDs for 390nm, 470nm, 502nm, 590nm, 660nm, white
CUV-F	Cuvette holder for SL1-LED, includes F600 Y-fiber
BLK-CXR	Concave grating spectrometer without TEC for range 190-850nm or 280-900nm
BLK-CXR-TEC	Concave grating spectrometer with TEC for >3000ms detector integration times
SILVER-Nova	High sensitivity for 190-1150nm wavelength range. Includes TEC
SILVER-Nova-TEC-X2	SILVER-Nova with improved TEC, 80% reduction in noise at long exposures

Specifications			
LED Type	T-5 mm	Fiber Options	600 micron Y-fiber
LED's included	390, 470, 502, 590, 660nm	LED life	10,000 hours
UV LED's available (prices vary)	295, 345, 365, 385, 390nm	LED life	10,000 hours
Spectral range	Depends on LED installed	Connectors	2 x SMA 905

