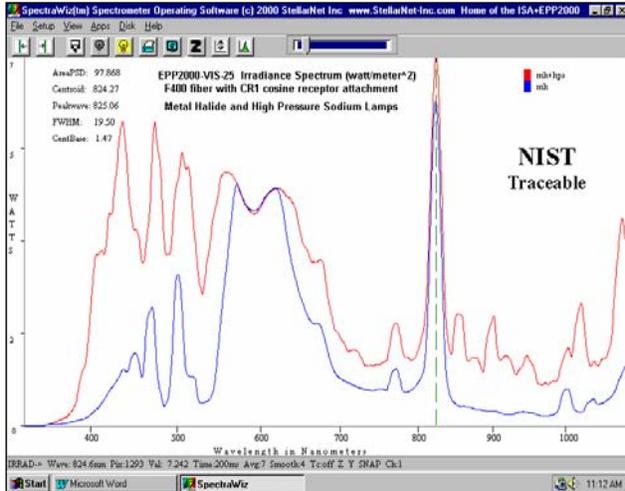# www.StellarNet-Inc.com
Analytical Instrumentation
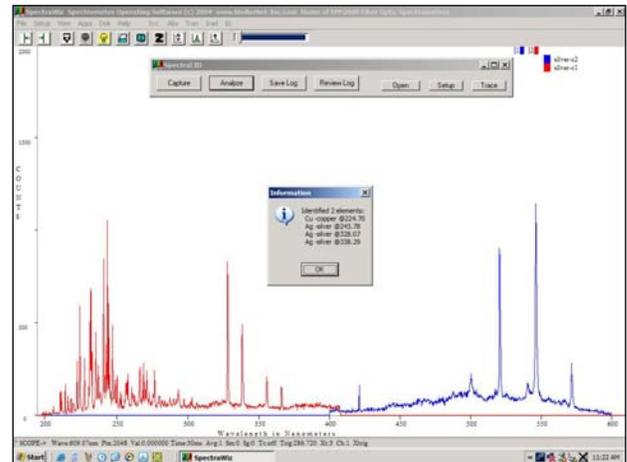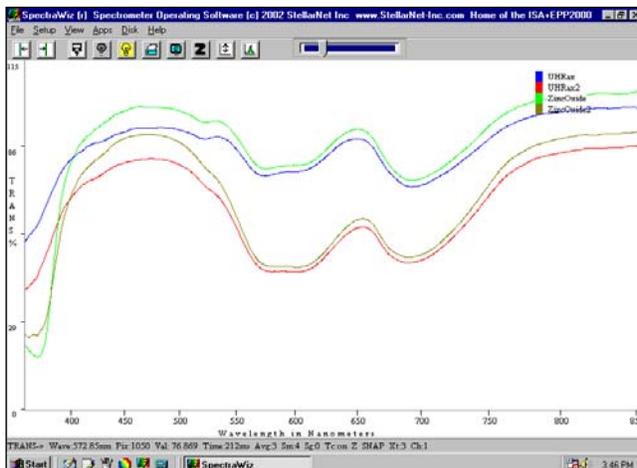## *Surf the New Wave in Portable Fiber Optic Spectrometry*

SpectraWiz® Software Features:

✓ **Real-time Spectral Graphing and Instrument control** with Data Save and Multi-File Plot

✓ **Measure Spectral Absorbance, Transmittance, reflectance, Irradiance, Fluorescence & Emissions**

✓ **SpectroRadiometer App Measures Absolute Intensity Watts, Lux, and Color Temp & xy Chromaticity**

✓ **SpectroColorimeter App Measures CIELAB Color L* a* b* and Delta E* Color Differences in Real-time**

✓ **ChemWiz® Measures Concentrations via Methods**

The SpectraWiz® operating software for Win9x/NT/00/XP is included free with each StellarNet miniature fiber optic spectrometer system. SpectraWiz has powerful applications and tools to interpret and measure your spectral data for real-time spectroscopy.

The **SpectroRadiometer** application measures irradiant intensity in watts per meter^2, and moles per second (a photon dose rate) with integral PAR value (Photo-synthetic Active Radiation). Illuminance can also be measured in photometric units of lumen per meter^2 per nm with an integrated value displayed for total LUX. Also ft. candles, radiant, & luminous flux.

Transmittance and **reflectance** can be used to characterize fluids, gasses, and optical materials. Light reflectance from solids and transmittance in fluids is also used to provide colorimetric information. The **SpectroColorimeter** app converts the spectral data to **CIELAB color** values **L* a* b*** for both solid and liquid samples. Color differences between a

sample and a pre-saved color standard are easily measured using the CIELAB **Delta E*** value indicator.
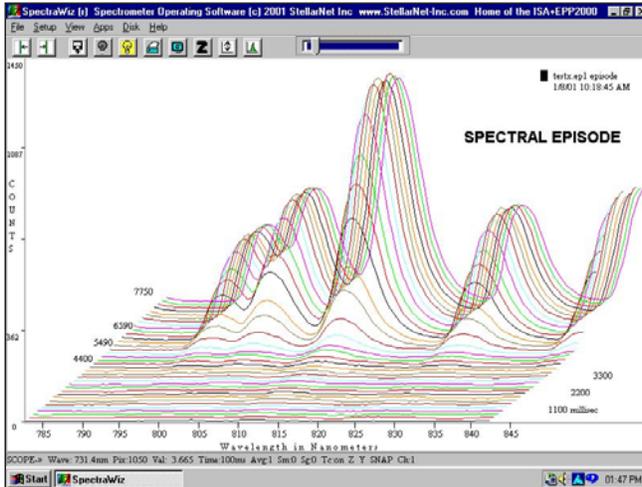
With multi-channel displays and toolbar functions, **emission** measurements of peak, centroid, and FWHM wavelengths can be easily made for plasma, laser, and light emitting diodes. Measure area of **fluorescence** emitted by chemical reagents, UV/laser induced spectroscopy, and fiber optic chemical sensors. The **ChemWiz** app measures sample concentrations using **absorbance** according to Beer's law for a specific path length. User configurable methods specify instrument setup and calibration parameters.
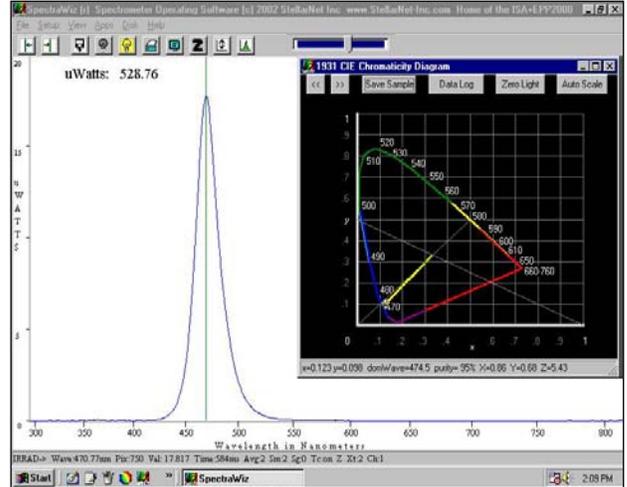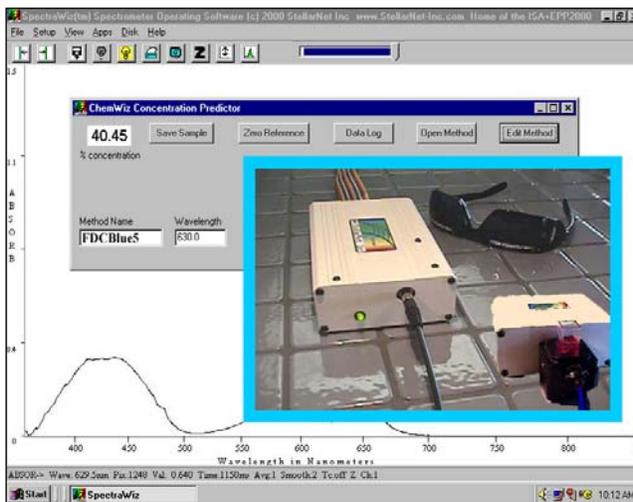
The SpectraWiz® operating software for Win9x/NT/00/XP is included **Free** with each StellarNet miniature fiber optic spectrometer system. SpectraWiz has **powerful applications and tools** to interpret and measure your spectral data and perform real-time spectroscopy.
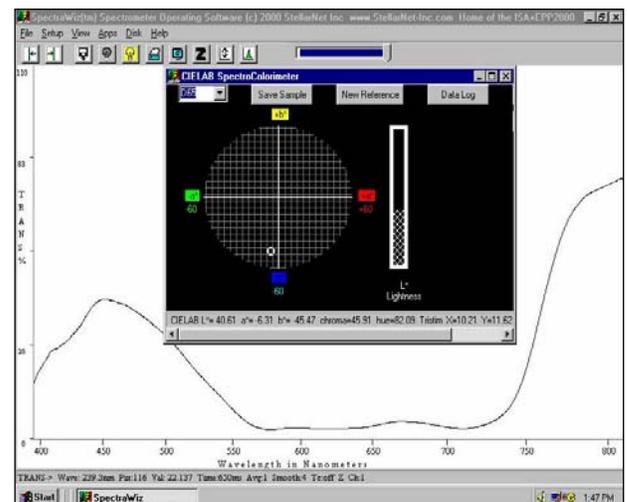

Spectral Time Series Analysis
Via Episodic Capture

SpectroRadiometry & LED xy Chromaticity
& Correlated Color Temperature (CCT)

ChemWiz Concentration Display
Via Integrated PLS Calibration

CIELAB SpectroColorimetry
L* a* b* plus Delta E*

Spectroscopy measurement applications are **integrated into a single program** to measure absorbance AU, %T, Concentrations, Reflectance, Colors, Fluorescence, Emissions, Absolute Intensities (watts, lumens, lux, moles), **LED** & Light xy Chromaticity, **CCT**, **UVabc emission monitor** (not shown). Optical Trigger, Graphing, Time series, and **Multi-Channel features**. SpectraWiz software also includes customizable programs for operation with **LabView**, **Excel** + **VBA** (Visual Basic Automation), **Delphi** Pascal, and Visual **C.**