



Technical Specification Sheet MINI RUGGED SPECTROMETER SYSTEMS

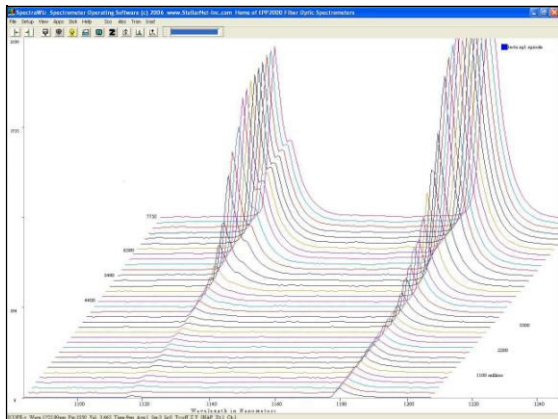
A Universe of Spectrometer Systems

StellarNet Low Cost Research Spectrometers

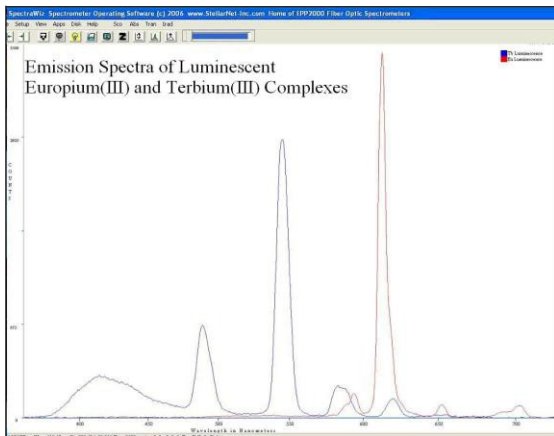
StellarNet miniature research grade spectrometers provide low cost measurements in the UV-VIS & NIR wavelength ranges. These instruments can measure absorption, emission, fluorescence, color, transmission and concentration with **SpectraWiz®** software, free with any spectrometer. **BLACK-Comet** concave grating spectrometers are available in four models – **190-850nm / 280-900nm** (\$3150) or **200-1080nm / 220-1100nm** (\$3595). The units offer uniform resolution, low stray light, improved UV sensitivity and can include an integrated TEC (thermoelectric cooler). The low cost **BLUE-Wave** spectrometer series is available in several models for measurements in the 200-1150nm wavelength ranges. These units are extremely portable (1x3x5 inches) and up to 8 can be daisy chained together. StellarNet spectrometers are coupled with fiber optic sampling accessories to create a rugged, reliable, and ideal configuration for the lab or field!



Dual-DSR UV-VIS & NIR System 200-2300nm



Time series analysis of spectrophotometric titration



Lanthanide complex emission using BLACK-C Fluorimeter

➤ UV-VIS Absorbance / Transmission

- Concave Grating Research Grade Spectrometers
- Dip Probes, Flow Cells, ATR & Reflectance Probes for fast, easy sampling of liquids or solids
- Integrated cuvette-light sources

➤ Reflectance / Colorimetry

- High power UV-VIS & NIR light sources
- High throughput reflectance probes & fixtures
- Dual Channel wide range (190-2300nm) measurement for color & composition analysis

➤ Low Cost Fluorescence

- High Sensitivity research grade fluorimeters with Thermoelectric Cooler (TEC) options
- LED light source – bright, many wavelengths
- Sampling Cuvettes & Fluorescence Probes

➤ ChemWiz Concentration Analyzer

- Concentration calibration - single wavelength PLS
- Episodic data capture for kinetics and time series analysis; file saving capabilities
- Ideal for on-line process monitoring





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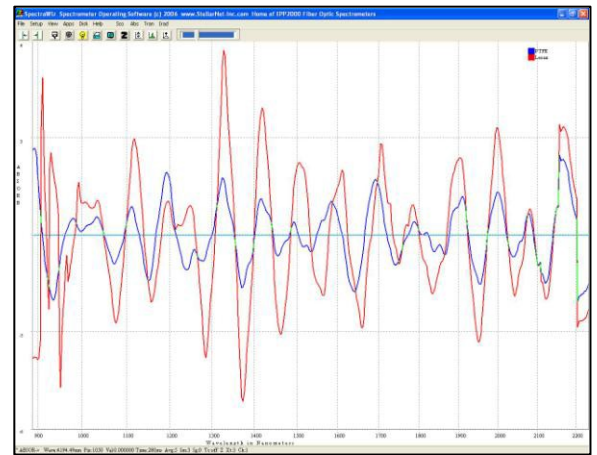
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Low Cost Near Infrared Spectrometers

The DWARF-Star NIR InGaAs spectrometers cover the 900-1700nm & 900-2300nm wavelength ranges with optional 512 or 1024 pixel cooled photodiode arrays. These units capture some of the most valuable absorption bands in the near infrared for qualifying and quantifying species such as water, proteins, fats & low molecular weight hydrocarbons, and much more! StellarNet offers sampling accessories to facilitate these measurements.

NIR applications include chemical ID, moisture analysis, SpectroRadiometry and optical power measurements, laser characterization, thin film thickness determination, plastic identification, process monitor and quality control.



2nd Derivative data of various plastics, used for identification in recycling plants

Item	Description	Price
BLACK-Comet	Concave Grating spectrometer for UV-VIS. C (190-850nm) or CXR (280-900nm)	\$3150
BLACK-Comet-SR	Super Range Concave Grating spectrometer for UV-VIS-NIR. C-SR (200-1080nm) or CXR-SR (220-1100nm)	\$3595
Thermoelectric Cooler(TEC)	Temperature Regulator unit maintains detector at constant 15 Degree F below ambient.	\$1750
SILVER-Nova	Super Range UVN model for 200-1100nm with Dual Grating and w/ 2048 pixel CCD	\$4695
BLUE-Wave	Low cost spectrometer designed for teaching labs – several wavelength ranges	\$2900
DWARF-Star NIR	NIR Spectrometer, range 900-1700nm, with cooled 512 element PDA detector	\$14125
RED-Wave NIRX	NIRX spectrometer for 900-2300nm with 512 element cooled PDA	\$19995
Fiber Optic accessories for Transmission/Absorbance/Fluorescence		
CUV2	4-way fiber optic cuvette holder for measuring absorbance, transmittance, or fluorescence.	\$650
CUV-F	Fiber optic cuvette holder for SL1-LED excitation with 2 collimating lens. F600Y fiber included for dual pickup.	\$810
TXF-4	Adjustable pathlength Transmission Fixture with 2 LENS-QCOLS	\$530
RFX-3D	VIS-NIR reflectance fixture with integrated 20 watt halogen bulb and lens	\$695
DP400-VISNIR	Dip Probe for Vis-NIR with optional pathlength tip (for UV-VIS-SR add \$85)	\$2100
R600-8-UVVIS-SR	Fluorescence / Reflectance Probe Armored 600um, 7 illuminate: 1 read fiber(s)	\$650
F600-UVVIS-SR	Armored Solarization Resistant 600um fiber optic cable - 2 meters	\$210
Fiber Optic Light Sources		
SL1-Filter	SL1 10,000 hour halogen light source with color equalization filter and nosecone.	\$795
SL1-CUV	SL1 10,000 hour halogen light source with integrated cuvette holder	\$855
SL1-LED	Miniature fiber optic light source with replaceable LED. Includes set of 6 LED's	\$795
SL3	Fiber optic deuterium light source with 4,000 hour Hamamatsu L2D2 bulb	\$1865
SL5	Deuterium + Tungsten UV/Vis/NIR Lamp (integrated cuvette holder add \$250)	\$1895

