

Analytical Instrumentation

Surf the New Wave in Portable Fiber Optic Spectrometry

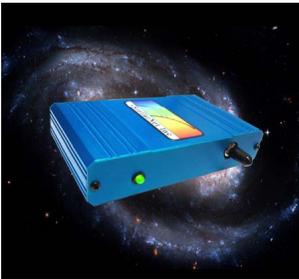
StellarNet Miniature Spectrometers are fiber optic instruments designed for laboratory, field, and industrial applications requiring spectroscopy measurements in the 190-2300nm wavelength ranges. The instruments are designed to be vibration tolerant with **no moving parts or** detector sockets for **portable test measurements** and industrial reliability. StellarNet includes SpectraWiz software **Free** with customizable LabView and Excel+VBA programs!



BLACK-Comet Spectrometers for UV-VIS (and NIR w/Super Range -SR)

- o Aberration Corrected **Concave** gratings **Deliver** near Perfect Spectral Images
- o Concave optics have **No Mirrors** to provide the Lowest Possible **Stray Light**
- o Flat field produces **Uniform Resolution** (<1nm) over wavelength range
- o 50% **Higher UV** sensitivity below 400nm compared to plane grating optics
- o **Ruggedized 16bit Instrument** in Miniature Metal Enclosure (2.7 x4.3 x6 inch)
- o Robust instrument is shock proof with no internal optical adjustments
- o **4 models:** C 190-850nm, CXR 280-900nm, C-SR 200-1080nm, CXR-SR 220-1100nm

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BLUE-Wave Miniature Fiber Optic Spectrometers for UV-VIS-NIR & OEM

- o Wide selection of models for measurements in **190-1150nm wavelength range**
- o UVN **eXtreme Grating** technology delivers high efficiency in both UV and NIR
- o **16-bit** digitizer with onboard spectral memory and **high speed USB-2** interface
- o Up to 8 instruments **connect and operate simultaneously** via USB hub
- o External **TTL trigger** for synchronized capture for plasma monitoring and LIBS
- o Robust system is shock proof in Miniature Rugged Metal Enclosure

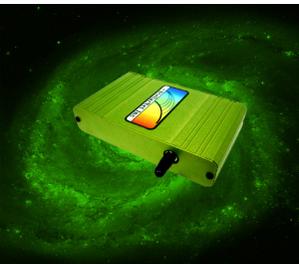
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RED-Wave NIR-InGaAs Spectrometers for 0.9-1.7um & 0.9-2.3um ranges

- o **TE cooled** 512 Element InGaAs Photo Diode Array with 25x500um pixels
- o Detector delivers **4000:1 Signal/Noise** using Correlated Double Sampling
- o **Zero Defect** 512 Detector Array provides 5nm Resolution with 25um slit
- o **Optional 1024 Detector** for 2.5nm Resolution with 25um slit
- o **16bit digitizer** with x10 detector gain switch and **high speed USB-2** Interface
- o **DWARF-Star** models now available in **Ultra Miniature Metal Enclosure!**

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GREEN-Wave Miniature Low Cost Fiber Optic Spectrometers 350-1100nm

- o **Ideal for low cost** applications like educational labs and field spectroradiometers
- o **16-bit** digitizer with onboard spectral memory and **USB-2** interface
- o Up to 8 instruments **connect and operate simultaneously** via USB hub
- o Robust system is **shock proof** in Miniature **Rugged Metal Enclosure**
- o For UV range or DLENS enhanced sensitivity upgrades order BLUE-Wave

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