

Технические характеристики

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Green Wave - Low Cost UV/VIS

- Measurements in the 350-1150nm wavelength regions
- Lowest cost model
- Great for teaching and educational labs
- Signal: noise = 400:1
- USB-1 Plug & play with Windows XP/Vista/7/8
- 245 mm x 762 mm x 1270 mm enclosure allows for extreme portability

Product Description

The Green Wave low cost Spectrometers are fiber optic coupled instruments with a wide selection of models for measurements in 350-1150nm wavelength ranges.

Each unit contains a USB-2 interface with a snap shot memory to provide instantaneous spectral image from the highly sensitive CCD for 2048 elements.

Various models provide a choice of grating range and slit resolutions.

A single strand fiber optic cable or probe assembly delivers input via standard SMA 905 fiber optic connector with a choice of cable lengths.

The spectrograph optics are exceptionally robust in a vibration tolerant modular design, with no moving parts.



Red Wave - NIR

- 900 nm – 2300 nm
- For near infrared measurements and applications
- InGaAs PDA detector with 512 or 1024 pixels
- Integrated thermo electric cooler set to operate at -5 deg C
- Plug & play with Windows XP/Vista/7/8
- High Speed USB-2 interfaces

Product Description

The Red Wave micro spectrometer is designed for OEM and sensing applications in the near-infrared spectral region.

This miniature MEMS spectrometer covers spectral regions where InGaAs linear detector array technology lacks sensitivity and optical throughput.

These micro NIR sensors are the perfect solutions for demanding NIR applications and light measurement > 1700 nm

These Red Wave micro spectral sensors overcome the limitations of traditional linear array based spectrometers by utilizing innovative MEMS based Fabry-Pérot tunable filter technology.

Due to their compact size and low cost, they are an ideal solution for advanced sensing application. These spectral sensors are designed for harsh industrial applications and they offer extreme ruggedness even in the most demanding environments.



Dwarf Star - Miniature NIR

- 900 nm – 1700 nm
 - Miniature NIR InGaAs extended range spectrometer
 - Measurements in the 900-1700 nm (0.90-1.70 μm) ranges
 - For NIR portable and OEM applications
 - InGaAs PDA detector with 512 or 1024 pixels
 - Integrated thermo electric cooler set to operate at -5 deg C
 - Plug & play with Windows XP/Vista/7/8
 - High Speed USB-2 interfaces
 - Complete Software Development and Integrated Chemometrics options
-

Product Description

The DWARF-Star, is small, robust, and equipped with high performance InGaAs detector array for the 900 nm -1700 nm wavelength range and achieves resolving resolutions to 1.25 nm.

The DWARF-Star features no moving parts and is packaged in a small rugged metal enclosure for portable, process, and OEM applications.

Advancements in electronic and optical design have allowed for size reduction never before achieved in a NIR spectrometer.

The InGaAs detector is a Sensors Unlimited linear photo diode array with 512 pixels (1024 optional) 25 μm by 500 μm tall to provide maximum sensitivity.

The detector has an integrated thermo electric cooler (TEC) maintained at -10 $^{\circ}\text{C}$, stabilized within ± 0.1 $^{\circ}\text{C}$.

The NIR spectrometers accept a single strand SMA-905 terminated, low OH, fiber optic cable as input.

Several models provide a variety of operational ranges and resolutions suitable for both spectroscopy and optical spectrum analysis.



Silver Nova - UV/Vis TE-Cooled

- 190 nm – 1110 nm
- High efficiency UVN spectrometer
- Resolution 1.0 with 25um slit
- Highest Sensitivity for low light applications
- TE Cooler for 65% increased S/N at long exposures

- UV enhanced CCD detector with optical lens assemblies
 - Plug & play with Windows XP/Vista/7/8
 - High Speed USB-2 interfaces
-

Product Description

The Silver Nova is a high performance spectrometer with a ruggedized metal enclosure including a fiber optic input for demanding applications in the 190 nm – 1110nm wavelength range that require high resolution and optimal sensitivity over a wide spectral range .

The Silver Nova is the most well rounded spectrometer choice allowing research grade results for numerous spectroscopic applications.

The spectrograph employs composite grating technology to deliver high efficiency in both the UV and NIR spectral extremes.

The UV enhanced CCD detector with integrated TE cooler, gain enhancements, and optical lens assemblies allow for unparalleled sensitivity, with over 65% increased signal to noise at long exposures.

Advancements in Silver Nova optical design deliver 1nm resolution with a 25um slit.

Additionally, the metal enclosure is ruggedized and compact to allow for portable, process, or laboratory environments.



Black Comet - Research Grade

- 190 nm – 1100 nm
- Research grade concave grating spectrometers
- Concave grating for UV-VIS applications
- Perfect spectral imaging with no mirrors for lowest possible stray light
- Flat field imaging for uniform resolution
- No optical adjustments for extreme thermal stability
- Plug & play with Windows XP/Vista/7/8
- High Speed USB-2 interfaces

Product Description

These miniature fiber optic spectrometers with concave gratings deliver high performance for spectroscopy applications in the UV-VIS wavelength ranges

covering 190 nm – 1100 nm.

The instruments are exceptionally robust with no moving parts, and are packaged in small rugged metal enclosures for portable spectroradiometry and lab or process spectroscopy measurements.

The BLACK-Comet UV-VIS spectrometers utilize a 40mm diameter concave grating with aberration correction to provide superb spectral imaging. This significantly improves spectral shapes by reducing coma and astigmatism found in plane grating spectrograph designs.

The spectrograph architecture does not utilize mirrors, and therefore provides the lowest possible stray light in the UV with additional assistance from the holographic line grating.

The concave grating produces a flat field on the CCD detector creating uniform resolution over the entire range.



Blue Wave - Miniature UV/VIS

- Measurements in the 200-1150nm wavelength regions
- For process, lab, field and OEM applications
- Improved electronics with high speed 16-bit digitizer allows for fast data acquisition
- Signal: noise = 1000:1
- USB-2 Plug & play with Windows XP/Vista/7/8
- Units may be daisy chained together for simultaneous measurement
- 254 mm (W) x 762 mm (d) x 1270 mm (h) allows extreme portability

Product Description

The StellarNet BLUE-Wave miniature spectrometers are fiber optically coupled instruments with a wide selection of models for measurements in 200-1150nm wavelength ranges.

Each unit contains a USB interface with a snap shot memory to provide

instantaneous spectral image from the highly sensitive CCD with 2048.

Various models provide a choice of grating range and slit resolutions. New and improved electronics with a high speed 16-bit digitizer allows for fast data acquisition and a signal to noise of 1000:1.

Up to 8 units can be daisy chained together and are able to run simultaneously. Additionally the new BLUE-Wave miniature spectrometers can be powered directly from your PC USB-2 port.

A single strand fiber optic cable or probe assembly delivers input via standard SMA 905 fiber optic connector with a choice of cable lengths.

The spectrograph optics are exceptionally robust in a vibration tolerant modular design, with no moving parts.



High Resolution Spectrometers

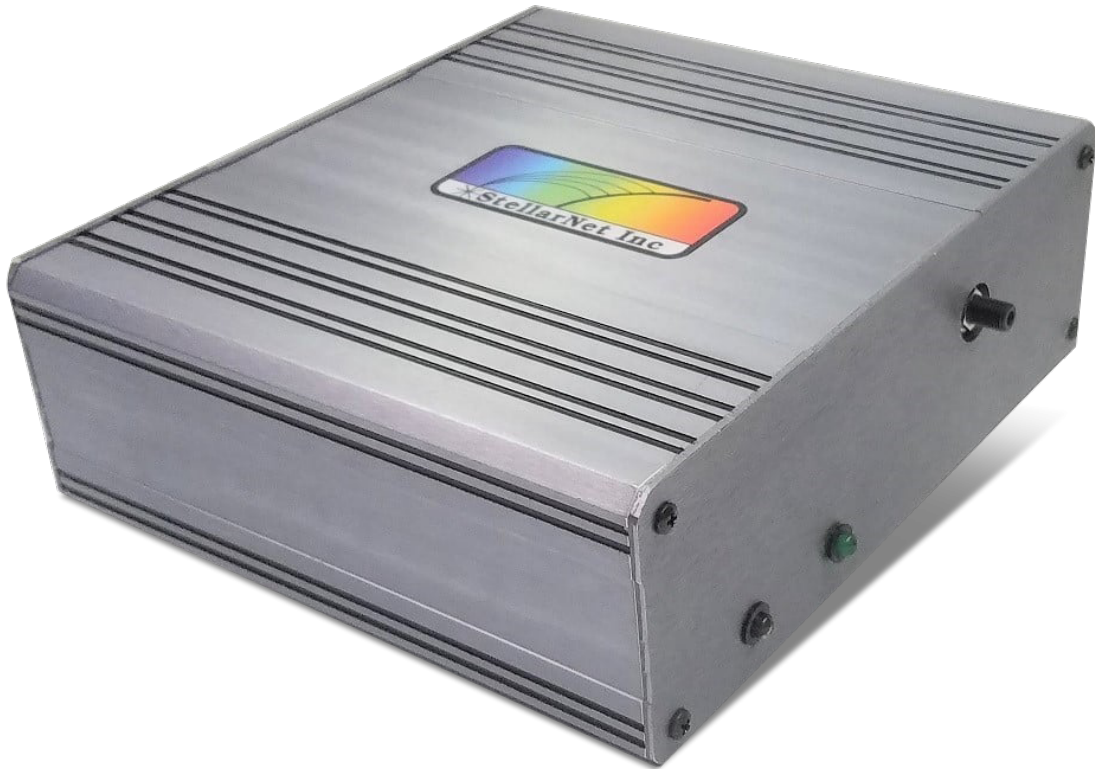
- 200 nm – 1075 nm
- Ultra high resolution spectrometer
- Double resolution over standard models
- Resolutions better than 0.1 nm can be achieved
- Several units may be daisy chained together allowing simple configuration for dual and multi-beam process applications
- High speed plug and play interface using USB2

Product Description

The EPP2000-HR High Resolution fiber optic spectrometers are available in several low cost models for UV, VIS, and NIR applications.

The HR spectrometers have double the resolution over standard models with the same grating. The wavelength range is reduced by the same factor. Resolutions better than 0.1 nm can be achieved depending on selected model range, detector, and slit size.

Applications include wavelength monitoring and characterization for tunable lasers/LEDs and other sources such as elemental emissions from plasma & Laser Induced Breakdown Spectroscopy. Also, optical sensing of temperature, pressure, & position are enabled via Bragg grating technology.



Raman Spectrometers

- Raman spectrometers are ruggedized miniature spectrometers configured specifically for Raman spectroscopy applications using 785nm lasers
- Enhanced optics allow for extreme sensitivity and extra low stray light values down to 0.05%
- High Resolution models available down to 4cm^{-1} with options for maintaining S/N with TEC cooling
- Compact size & seriously rugged for portable and field applications. Metal enclosures are extremely durable

Product Description

These compact raman spectrometers perform quick identification of a variety of liquid, solid, or powder samples.

The micro Raman spectrometers include enhanced CCD array detectors for 785 nm Raman & 532 nm Raman (other wavelengths available on request) or

cooled InGaAs photodiode arrays for 1064 nm Raman where interference from sample fluorescence is minimized and virtually non-existent.

These Raman spectrometers have no moving parts and are permanently aligned for shock-proof durability. SMA-905 optical input to spectrometer allows attachment of Raman probes or fiber optic sample accessories.



Dual Detector Super Range

- Dual Detector Super Range (DSR) for measurements from 200 nm -2300 nm
- Two instruments work as one updating spectral graph
- Options for up to 8 channels
- Plug & play with Windows XP/Vista/7/8
- High Speed USB-2 interfaces

Product Description

Dual-Detector Super Range (DSR) spectrometer systems combine two instruments to cover the ultra violet, visible and near infrared portions of the electromagnetic spectrum.

The two instruments work as one creating a unified spectral graph over the entire wavelength region, 200 nm – 2300 nm. The two instruments employ both a UV-VIS detector array and NIR-InGaAs array in order to cover the entire range. 2048 element UV-VIS detector with the option of 512 or 1024 elements in the NIR.

Various models allow for ranges from 200-1700, 280-1700, or 200-2300nm depending on the measurement specifications required.

These spectrometers are ruggedized for field or lab process measurements. A Miniature USB-Hub provides instrument PC interface. The Dual-DSR system has many applications for spectroradiometry, food and drug QA/QC, and chemical process measurements due to its ability to probe the near infrared while simultaneously measuring sample UV and color spectrum.

These units are extremely ruggedized. The detector is bolted in position and military grade epoxy holds optics in place, making the instruments vibration tolerant, durable, and suitable for just about any lab and/or field measurement. A multi-band filter is integrated into the spectrograph to provide order sorting and prevent optical aliasing.

The instruments optical input is attached via standard SMA-905 connector, using single strand fiber optic cable with typical silica core diameters of 400 um, 600 um, 1000 um.

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