📞 (813) 855-8687   ✉ ContactUs@StellarNet.us

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SPECTROMETERS ⌄   **SYSTEMS** ⌄   **LIGHT SOURCES** ⌄   **SOFTWARE** ⌄

ACCESSORIES ⌄   **ANALYZERS** ⌄   **OEM** ⌄   🛒   🔍

StellarNet Spectrometer Models

StellarNet miniature spectrometers are portable & compact fiber optic instruments for UV, VIS, and NIR measurements in the 190-2500nm range. The StellarNet series of miniature spectrometers is a step up in low cost instrument design, offering CCD/CMOS/PDA 2048 & PDA 512/1024 detectors. The units are engineered to have no moving parts or detector sockets, utilize a ruggedized aluminum enclosure and an integrated A/D digitizer for unmatched durability and quality that out performs any instrument in its class. Numerous models offer standard, concave grating, or high resolution (HR) optics for selected spectral ranges.

StellarNet Miniature UV-VIS Spectrometer Models	Wavelength
BLUE-WAVE Blue-Wave Miniature Series	200-1150nm
BLACK-COMET Concave Grating Series	190 - 900nm
BLACK-COMET-SR Super Range Concave Grating Series	200 - 1100nm
BLACK-COMET-HR High Resolution Concave Grating Series	200-750nm
SILVER-NOVA SILVER-Nova High Performance Series	190 - 1110nm
HYPER-NOVA HYPER-Nova Series	300 - 1100nm
HR-X Hi-Res High Resolution X Series	200 - 1100nm
GREEN-WAVE GREEN-Wave Low Cost Series	350-1150nm
OEM Spectrometer Engines	200-1150nm

StellarNet Miniature NIR Spectrometer Models (comparison chart)	Wavelength
DWARF-STAR Minaiture NIR Models	900 - 1700nm
RED-Wave Extended Range NIR Series	900 - 2500nm
RED-Wave-Micro NIR Models	1750-2150nm

StellarNet Miniature Raman Spectrometer Models	Wavelength
Raman Models- 532nm, 785nm, 1064nm, custom	200-4500 cm-1
Quasar f/2 High Throughput Spectrometers	200-4500 cm-1
HYPER-Nova High Performance Spectrometers	200-4500 cm-1

Dual Detector Spectrometer Systems	Wavelength
Dual DSR Portable Series	200 - 2300nm

Spectrometer Options and Upgrades include DLENS Detector Lenses, Interchangeable slits, Jack 1-IN Triggers, ZAP1[1] & ZAP2 (WiFi)[2], custom ranges, and optional SMART-Control Interfacing[3].

Introducing our new Applied Spectroscopy Division

New Handheld Raman!

New! ChemWiz-ADK Handheld NIR Spectrophotometer with on board chemometrics and spectral matching!

Read More

Check out our SpectroChemistry Systems for UV-VIS and Fluorescence Applications

Learn More

New Spectrometer Python Application Driver for Windows, Linux, RasPi, Mac

Check it out!
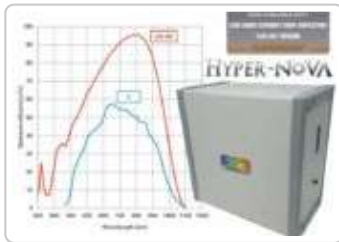
HYPER-Nova Highest Performance Raman Spectrometer

Learn More

BLUE-Wave Miniature Spectrometer

- 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
- Units may be daisy chained together for simultaneous measurement
- 1x3x5 inch enclosure allows for eXtreme portability
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

BLACK-Comet Concave Grating Spectrometer

- Measurements in the 190-850 nm or 280-900nm ranges
- 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
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

BLACK-Comet-SR Super Range Concave Grating Spectrometer

- Measurements in the 200-1080nm or 220-1100 nm ranges

- Concave grating for UV/VIS/NIR 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

- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet

- Windows Software with options for Linux, Andriod, & iOS

- SDKs and customized solutions also available

More Specifications

BLACK-Comet-HR High Resolution Concave Grating Spectrometer

- Measurements in the 200-600nm or 380-750nm ranges
- Resolutions as low as 0.4nm
- Perfect spectral imaging with no mirrors for lowest possible stray light
- Flat field imaging for uniform resolution
- No optical adjustments for extreme thermal stability
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

SILVER-Nova Super Range TE Cooled Spectrometer

SILVER-NOVA

- Measurements in the 190-1110nm ranges
- Resolution 1.0 with 25um slit
- Most well rounded model
- Highest Sensitivity for low light applications
- TE Cooler for 65% increased S/N at long exposures
- UV enhanced CCD detector with optical lens assemblies
- Interchangeable slit upgrade options
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

DWARF-Star Miniature NIR Spectrometer

- Miniature size (5″x3″x2″) and rugged design
- Measurements in the 900-1700 nm (0.90-1.70 um) 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
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available
- Complete Software Development and Integrated Chemometrics options

More Specifications

RED-Wave Extended Range NIR Spectrometer

- Measurements from 900-2500 nm (0.90-2.50 um)
- For NIR measurements and applications requiring large bandwidth
- Integrated thermo electric cooler set to operate at -15 deg C
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

RED-Wave-Micro MEMS NIR Spectrometer

- Measurements from 1750-2150nm
- MEMs improved performance over arrays
- SpectraWiz Software Suite
- OEM and NIR sensing applications
- Full spectrum OR selectable wavelength

More Specifications

GREEN-Wave Low Cost Spectrometer

- Measurements in the 350-1150nm wavelength regions
- For education and teaching applications
- Improved electronics with high speed 16-bit digitizer allows for fast data acquisition
- Signal: noise = 300:1
- 1x3x5 inch enclosure allows for easy classroom use and storage
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

Raman Spectrometers

- Configured for 405, 532, 633, 638, 785, 830, 1064nm or custom lasers
- High Resolution (-HR) and Extended Range (-ER) spectrometer options
- Included TEC cooler for -15 deg cooling
- eXtreme TEC 2 stage cooling upgrades
- Interchangeable slit options
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

Dual DSR Portable Spectrometer

- Dual Detector Super Range (DSR) for measurements from 200-2,300nm
- Two instruments work as one updating spectral graph
- USB-2 Plug & play with options for WiFi, RS232, SPI, 4-20mA, Digital I/O and ethernet
- Windows Software with options for Linux, Andriod, & iOS
- SDKs and customized solutions also available

More Specifications

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Corporate Information

StellarNet, Inc.

14390 Carlson Circle

Tampa, Florida 33626

Phone: +1 (813) 855-8687

Fax: +1 (813) 855-0394

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