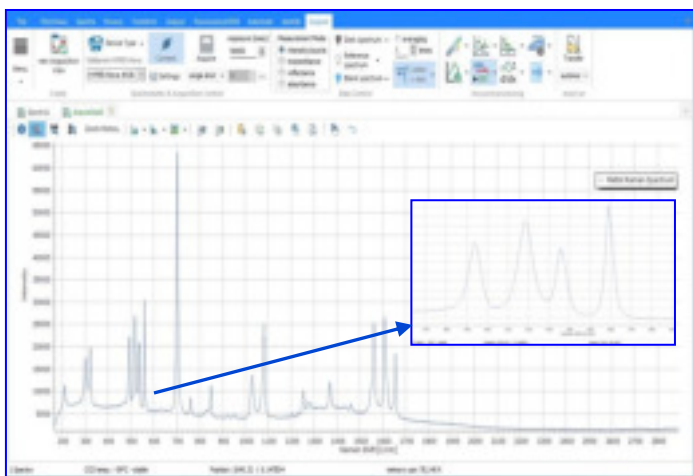




HYPER-Nova High Performance Spectrometer Series

New HYPER-Nova spectrometers offer high performance spectroscopy measurements in a compact form factor. HYPER-Nova spectrometers use a low dark current depletion technology (LDC) to provide lower background noise than is possible with traditional front/back-illuminated technologies. HYPER-Nova's CCD detector is vacuum sealed and cooled to -60 °C with peak quantum efficiencies up to 95%! The HYPER-Nova comes in a variety of wavelength configurations including specialty configurations for Raman spectroscopy and custom low light applications.

HYPER-NOVA



HYPER-Nova Spectrometer configured for 785nm Raman measuring our Maltol Standard Sample. Zooming in on one of the characteristic quadruplets shows the amazing low noise characteristics of this new spectrometer system

New HYPER-Nova back thinned CCD spectrometers provide unmatched noise reduction in a compact system

- Bridging the performance gap between high-end and low cost modular spectrometers
- Low noise, back-illuminated, & LDC CCD
- Deep depletion offers 10x lower dark current than traditional back illuminated spectrometers

Applications

The HYPER-Nova was designed out of necessity to bridge the gap between research lab systems costing > \$100,000 dollars and low cost compact systems. HYPER-Nova is ideal for use with low signal Raman spectroscopy such as those from carbon and biomolecules as well as low intensity signals from fluorescence microscopy.

StellarNet Spectroscopy Pro-tools Software operates the HYPER-Nova spectrometer line with many advanced features:

- **Advanced Baseline Correction**
- **Spectral Pre-processing (SNR & MSC)**
- **Spike removal**
- **Peak Labeling & Advanced Display**



HYPER-Nova Standard Models

HYPER-Nova-532	200-3500cm-1
HYPER-Nova-785	200-2750cm-1
HYPER-Nova-UVIS	300-1100nm
Custom	Contactus@StellarNet.us

Specifications	HYPER-Nova Spectrometers	Starting at \$25,000
Spectrometer:	HYPER-Nova	System Dimensions: 10 x 9 x 6"
Wavelength Range:	532 & 785 Raman; or wide band	Detector Cooling: -60 deg C
Optical resolution:	4cm-1 ; 1nm	Spectrometer Interface: USB2
Detector type:	Low Dark Current CCD	PC Specs: Win7-10, 32 or 64-bit
Active pixels:	2000 x 256	Software included: Spectroscopy Pro-tools
Pixel size:	15x15um	
Integration time:	1ms-8 minutes	

