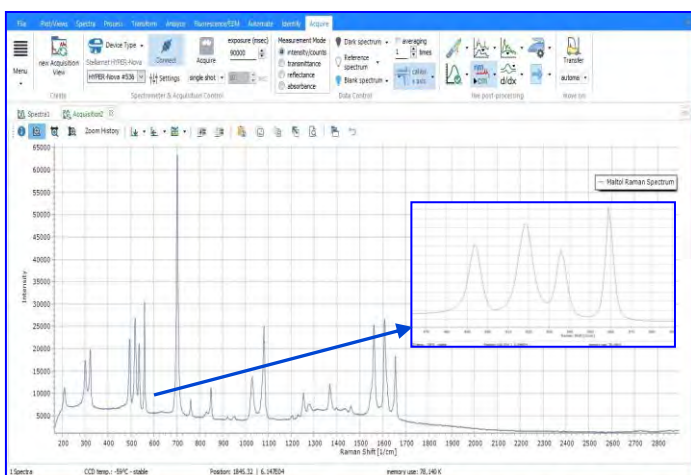


HYPER-Nova High Performance Spectrometer Series

New HYPER-Nova spectrometers offer high performance spectroscopy measurements in a compact form factor. HYPER-Nova spectrometers use a low dark current deep-depletion technology (LDC-DD) to provide lower background noise than is possible with traditional 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 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

HYPER-Nova Standard Models

HYPER-Nova-532	200-3500cm ⁻¹
HYPER-Nova-785	200-2750cm ⁻¹
HYPER-Nova-UVIS	300-1100nm

HYPER-NOVA



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, & deep-depleted 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**



Specifications		HYPER-Nova Spectrometers	
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- Deep Depletion 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		