



High Performance Spectrometer Series

The **HYPER-Nova** is one of our first **StellarElite** spectrometers and offers highperformance spectroscopy in a compact form factor. HYPER-Nova spectrometers use a Low Dark Current (LDC) technology to provide lower background noise than is possible with traditional font/backilluminated detectors. 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.



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Features and Benefits:

- Low Dark Current (LDC) Technology
- Deep-Cooled CCD Detector
- Low Background Noise

Model Ranges and Resolutions		
MODEL	RANGE	RESOLUTION
HYPER-Nova-HR-532	200-3,100 cm-1	5 cm-1
HYPER-Nova-ER-532	200-5,250 cm-1	9 cm-1
HYPER-Nova-785	200-2,750 cm-1	4 cm-1
HYPER-Nova-UVIS	300-1100nm	1 nm

TECHNICAL SPECIFICAIONS			
Optical Parameters:	Detector and Electronics:	Physical, Software and Interface:	
Resolution: Model Dependent	Detector Type: LDC CCD - Front (FI) or Back- Illuminated (BI)	Dimensions : 10 x 9 x 6"	
Spectral Range: Model Dependent	Active Pixels: FI = 1650 X 200 BI = 2000 X 256	Operating System: Windows, Mac OS, and Linux (64 bit)	
Diffraction Grating: 1200 g/mm with gold surface	Pixel Size: FI= 16 x 16 um BI = 15 X 15 um	Interface: USB	
Stray Light: <0.05%	Active Pixel Well Depth: FI = 120,000 e- BI = 150,000 e-	Software: All StellarNet Software	
Optical Input: SMA-905	Quantum Efficiency (max) : FI = ~68% BI = ~95%	Input: 12VDC	
All models include interchangeable slit upgrade	Signal-to-Noise : >3000:1 at long exposures	Weight: 9lbs	

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