



## PRODUCT DATA SHEET

### Nano-Hyperspec<sup>®</sup> Hyperspectral Imaging Sensor



- VNIR spectral range (400-1000nm)
- 270 spectral bands, 640 spatial bands
- Maximum frame rate: 350Hz
- 480 GB internal storage
- Direct-attached GPS / IMU capabilities
- Light, small, robust

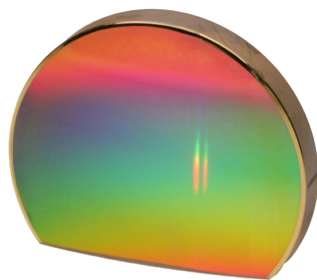
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PERFECT FOR UAV APPLICATIONS

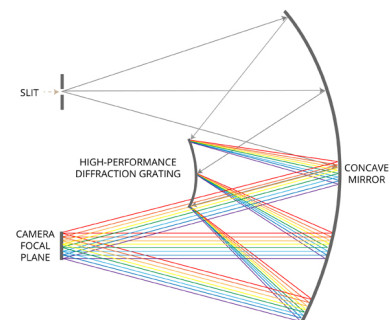
Nano-Hyperspec®	
Wavelength range	400-1000 nm
Spatial bands	640
Spectral bands	270
Dispersion/Pixel (nm/pixel)	2.2
FWHM Slit Image	6 nm
Integrated 2 <sup>nd</sup> order filter	Yes
f/#	2.5
Layout	Aberration-corrected concentric
Entrance Slit width	20 μm
Camera technology	CMOS
Bit depth	12-bit
Max Frame Rate (Hz)	350
Detector pixel pitch	7.4 μm
Max Power (W)	13
Storage capacity	480GB (~130 minutes at 100 fps)
Weight without lens, GPS (lb / kg)	1.2 / 0.5
Operating Temperature	0°C to 50°C



All-Reflective  
Concentric  
Optical Layout:  
Light, Small, Robust



Headwall-manufactured diffraction gratings manage reflected light with exceptional precision and resolution.



Headwall's concentric design layout using mirrors and gratings provides aberration-free imaging and a wide field-of-view.

January 2018

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