



## 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

# PRODUCT DATA SHEET

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



## APPLICATIONS



**GEOLOGY & MINING**



**INFRASTRUCTURE INSPECTION**



**CROP DISEASE DETECTION**

APRIL 2018

© 2018 Headwall Photonics, Inc. Information in this document is subject to change without notice. Headwall Photonics, Inc. reserves the right to change or improve its products and specifications and to make changes in content without obligation to notify any person or organization of such changes or improvements. The Hyperspec® name (and all its derivations) is a registered Trademark of Headwall Photonics, Inc. \*US and/or EU Export Restrictions may apply to this Dual Use Product.

contact information  
 Headwall Photonics, Inc.  
 580 Main Street • Bolton, Massachusetts 01740  
 978-353-4100  
 information@headwallphotonics.com