

Micro-Hyperspec® & Lightweight UAV Packages

Product Datasheet



- Professional airborne performance
- Scientific-grade hyperspectral data
- High payload capacity; long-duration flight times
- Custom vibration-isolation mount
- Multiple flight-control redundancies
- VNIR, NIR, Extended VNIR, or SWIR
- Aberration-corrected imaging, wide FOV
- Airborne hyperspectral software
- HyperCore™ Data Storage/Management
- GPS/IMU options available

PRODUCT DATA SHEET



Current specifications for drone platforms also available

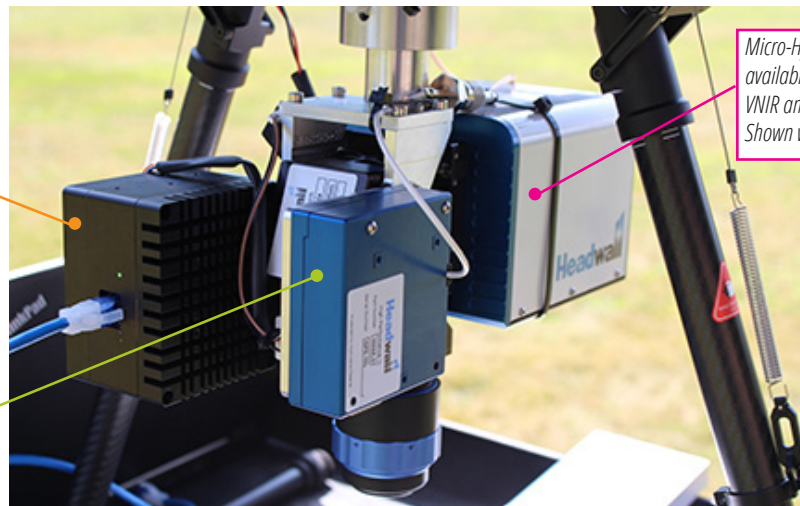
Spectral Range	VNIR (400-1000nm)	NIR (900-1700nm)		Extended VNIR (600-1700nm)	SWIR (900-2500nm)
Micro-Hyperspec® Configuration	A-Series*	640*	320*	640	640
Focal Plane Array	Silicon CCD	InGaAs			MCT
Pixel Pitch (microns)	7.4	15	30	15	15
Aperture	F/2.5				
Slit Length (mm)	10.5				
Dispersion/Pixel (nm)	1.9	6	12	4.1	6
Entrance Slit Width (µm)	20	25		20	20
FWHM Slit Image (nm)	5.8	10	10	5.5	8
Spectral Bands	324	134	67	267	267
Spatial Bands	1004	640	320	640	640
Aberration-Corrected	Yes				
Max. Frame Rate (Hz)	90	120	346	120	>200
ADC Bit Depth	12	14			16
Cooling	No	TE-cooled			Stirling-cooled
Digital Output Format	Base CameraLink	Base CameraLink			Base Cameralink
Weight without lens (lb / kg)	1.6 / 0.7	1.9 / 0.9			3.4 / 1.6
Max Power (W)	6.6	5	5	5	24

* Call for availability.

SOLUTION COMPONENTS

Headwall's HyperCore™ provides 500GB of storage while synthesizing the data streams from the GPS/IMU and other connected instruments.

Headwall offers a selection of optional GPS/IMU devices, including the high-performance model shown here



Micro-Hyperspec® imaging sensor, available in VNIR, NIR, Extended VNIR and SWIR spectral ranges. Shown with optional telecentric lens.

Manufactured by Headwall Photonics, distributed in the UK and Ireland by **analytik**.