



microHSI™ 425 SHARK

First commercially available single-sensor hyperspectral solution covering the full spectral range from 400-2,500 nm.

Features

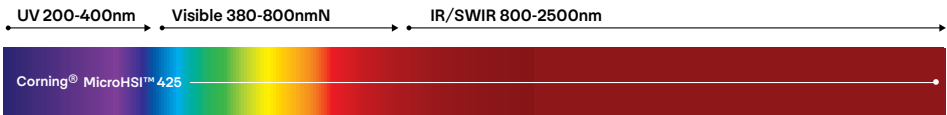
Optimized for space, airborne, industrial, and scientific applications, all in a miniaturized, lightweight hyperspectral imaging sensor package.

- Ability to record the entire hyperspectral data cube (468 spectral bands), or record only the bands needed to produce specific data products and solutions.
- Image and download digital elevation models before flight to improve post-processing orthorectification and geolocation accuracy.
- Flexible image collection planning captures a targeted area of coverage to optimize the use of memory capacity and helps reduce post-processing time and complexity.
- The standard microHSI™ 425 sensor, integrated with Corning’s Selectable Hyperspectral Airborne Remote Sensing Kit (SHARK), includes a spectrograph, camera, telescope, navigation system, microcomputer, and one TB of resident storage (7 lbs).




Key Benefits

- Covers 400-2,500 nm
- Single optical/sensor channel helps reduce the complications of recording and post-processing imagery from two sensors.
- Ultra-Low Size, Weight, Power, and Cost (SWaP-C) by using Corning’s proprietary diamond turned optics systems for aluminum.
- Ruggedized to help withstand commercial and industrial applications.
- Processed data on landing to optimize the use of memory.

Wavelength where this sensor operates



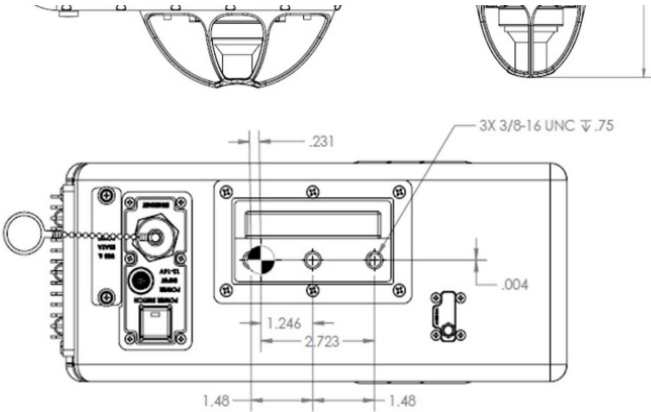
Uncover insights from the ultraviolet to the near infrared with one powerful sensor.

	 Wavelength range covered	 Applications	 Sensor Weight
Corning® MicroHSI™ 425	400 _{nm} - 2,500 _{nm}	Agriculture, Industrial, Healthcare, Gas Detection, and Mining.	7 lbs

Technical Characteristics*

Dimension	Unit	Performance
Pixel size (µm)	H (spatial) V (spectral)	15 15
Lens Focal Length	Mm	25
Frame Rate	Hz	125
Used Pixel Array	Spatial Spectral	640 468
Dynamic Range	Bits	16
Spectral range (µm)	Low High	400 2500
Spectral resolution (FWHM)	nm	</=8
Lens Aperture	f#	3.3
Weight (Sensor)	kg	3.0
Temperature Range	Operating Storage	5-40 Degrees Celcius 0-60 Degrees Celcius
Humidity	Non-condensing	10-90%
Power Consumption	Watts	30
Voltage Range	VDC	12-16

* Performance listed is typical. Individual part configuration may vary. Contact our technical team for more information.



Learn more



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