

CORNING



Corning® Hyperspectral Imaging Technology Corning SWIR HSI

Overview:

Corning SWIR HSI is a compact (6.5 x 3.75 x 2.83”), high performance instrument sensitive in the SWIR spectral range (0.9-1.7 μm). It utilizes Corning’s patented design and proprietary high-efficiency, high durability coatings. Corning’s technology provides an extremely small footprint with high performance. This makes the Corning SWIR hyperspectral ideal for Remote Sensing (UAVs, MAVs, stand-off), as well as close range and microscope based applications. The system is integrated with state-of-the-art FPAs for high resolution (spectral and spatial) and high sensitivity.

Applications:

Corning SWIR HSI is used for commercial and military applications, such as:

- Remote sensing
- Tactical reconnaissance
- Disaster relief support
- Environmental monitoring
- Disturbed earth
- Moisture content
- Mineral explorations
- Industrial process monitoring

Typical Performance:

Parameter	Corning SWIR HSI (With InGaAs detector 15 μm x 535 pixels, 25mm focal length lens)
Cross-Track Field-of-View (mrad)	320
Spectral Range (nm)	900-1700
Spectral Channel Spacing (nm)	10
F/#	1.5
IFOV (urad)	600
Illumination black body solar spectrum (W/m^2)	1000
Signal to Noise (SNR mean) (@ 30Hz)	1200
Focus Range (m)	0.5m to ∞
Maximum Frame Rate (1/sec)	120
Mass (lb.)	5
Volume	6.5”x3.75”x2.83”
Smile	10% of pixel size
Keystone	10% of pixel size

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For more information about Corning’s hyperspectral and multi-spectral imaging systems please contact:
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