

CORNING



Corning® Hyperspectral Imaging Technology Corning LWIR HSI

Overview:

Corning LWIR HSI is an ultra-compact (4.2 x 3.0 x 2.38”), high performance Hyperspectral Imager sensitive in the LWIR spectral range (7.8-13.4 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 LWIR HSI ideal for remote sensing, as well as close range applications. The system is integrated with an uncooled microbolometer detector, and is suited for applications where the scene is stable.

Applications:

Used for commercial airborne applications, such as:

- Thermal analysis
- Gas detection
- Mineral explorations
- Industrial process monitoring

Typical Performance:

Parameter	Corning LWIR HSI (With microbolometer 17 μm x 320 pixels, 25mm focal length lens)
Cross-Track Field-of-View (mrad)	218
Spectral Range (nm)	7800-13400
Spectral Channel Spacing (nm)	100
F/#	1
IFOV (urad)	218
NESR	23
Focus Range (m)	0.5M to ∞
Maximum Frame Rate (1/sec)	60
Mass (lb.)	2.5
Volume	4.2”x3.0”x2.38”
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:
Corning Specialty Materials
69 Island Street
Keene, NH 03431
Tel:+1 603 357 7662
E-Mail: hyper@corning.com
www.Corning.com/advanced-optics

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Corning Incorporated. One Riverfront Plaza, Corning, NY 14831-0001