



Hyperspectral Application Development Kit (ADK)

Get more from your Corning hyperspectral sensor by developing hyperspectral technology and algorithms.

Features

- Explore, evaluate and experience the benefits of hyperspectral imaging technology first hand with support from a powerful Corning sensor module that covers spectral ranges from 400-1,000 nm.
- The lab-bench based kit includes a high sensitivity patented module configured for push-broom scanning, with a motorized linear-translation stage and an ultra-stable light source (both require 120VAC power). The system is controlled via HyperC+ software (included) that runs on a user-supplied Windows based PC, laptop or tablet.
- For field work, Corning offers an alternative configuration. The vis-NIR sensor is fitted with an optional plug-and-play optical scan head, which incorporates a servo-mirror capable of acquiring complete hyperspectral data-cubes.

Applications

- Commercial remote sensing
- Precision agriculture
- Environmental terrain/vegetation assessment and management
- Industrial

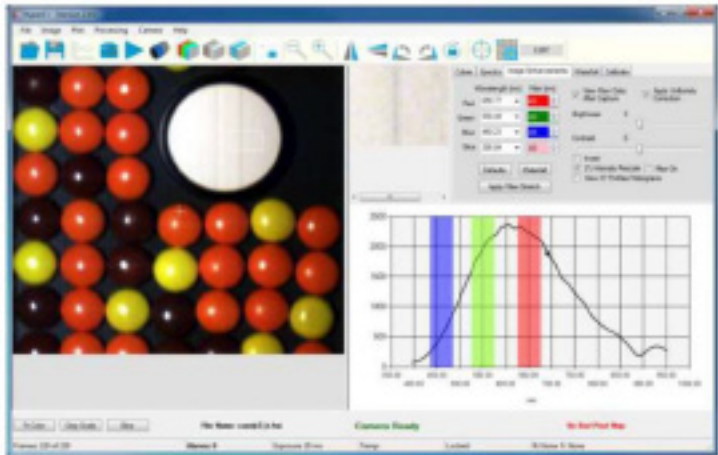
Key Benefits

- Covers 400-1,000 nm
- Can be used to develop algorithms to automate detections.
- Flexible configurations to support both small and large samples.
- Plug-and-play is compatible with MATLAB and other professional image exploitation tools.
- Portable, with optional battery pack.

Technical Characteristics*


Dimension	Unit	Result
Spectral	Range nm	400 - 1000
	Pixels (µm)	120 X 15 (4X binned), 240 X 7.50 (2X binned), and 480 X 3.75 (unbinned)
	Maximum Resolution	5.0nm (2X spectral pixel bin)
	Typical Spectral readout	5.0nm (4X spectral pixel bin) lower resolution possible
	Dispersion (nm/pixel)	5.0 (4Xbinned), 2.5 (2X binned) , and 1.25 (unbinned)
	Smile (pixels)	<1.0 (unbinned)
	Keystone (pixels)	<1.0 (unbinned)
Spatial	Pixels (µm)	320 X 15 (4X binned), 640 X 7.5 (2X binned), and 1280 X 3.75 (unbinned)
	Resolution (pixels)	<1.0
	fov (16mm foreoptics) (degrees)	8.5
Foreoptic	f/#	1.4
Scan Area Size	L X W X H cm	15.2 X 6.4 X 6.1

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



Sample HSI screen shot from a tablet PC.

Learn more

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