

CORNING

microHSI™ 410 Hyperspectral Application Development Kit

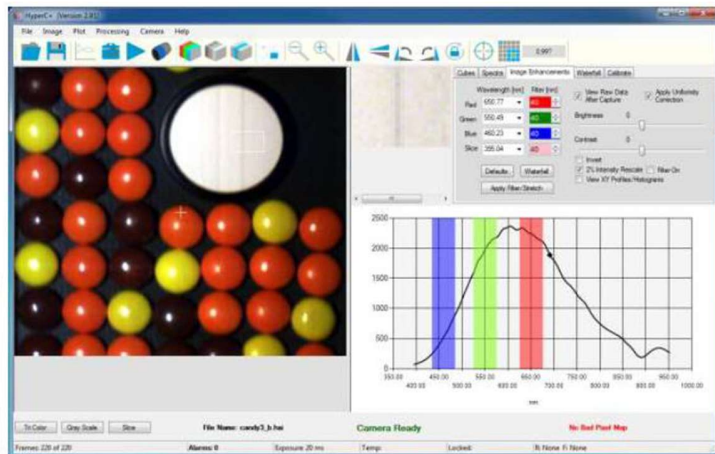
*First commercially available single-sensor hyperspectral solution
covering the full spectral range from 400-2500nm*

Corning's microHSI™ 410 Hyperspectral Application Development Kit (HSI-ADK) allows the development of hyperspectral imaging technology applications and algorithms. The HSI-ADK provides the essential tools needed to explore, evaluate, and experience the benefits of hyperspectral imaging first hand. The kit allows the user to develop techniques to solve real world problems using hyperspectral imaging. The kit hardware capabilities can grow with a user's needs.

The HSI-ADK is supported by a powerful 410 HSI sensor module that covers spectral ranges from 400-1000 nm. The lab-bench based vis-NIR HSI module is configured for push broom scanning, with a motorized linear-transition stage and an ultra-stable light source (both require 120VAC power). The system is controlled via HyperC+ software. The kit can be configured to translate the sample relative to the sensor (small samples) OR to translate the sensor relative to the sample (to support large samples). Customizable versions are also available.



Hyperspectral Application Development Kit containing a motorized linear-transition stage.



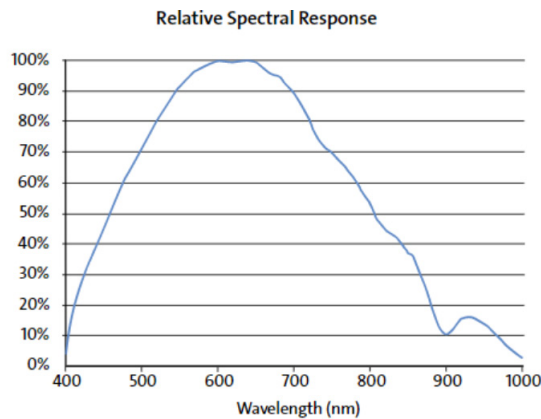
Sample HSI screen shot from a tablet PC.

microHSI™ ADK

VIS – VNIR System Attributes

Spectral	Range nm	400 - 1000
	Pixels (µm)	120 X 15 (4X binned) 240 X 7.50 (2X binned) 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) 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) 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

Relative Spectral Performance



This product may be subject to export control.

To learn more, contact us at:

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