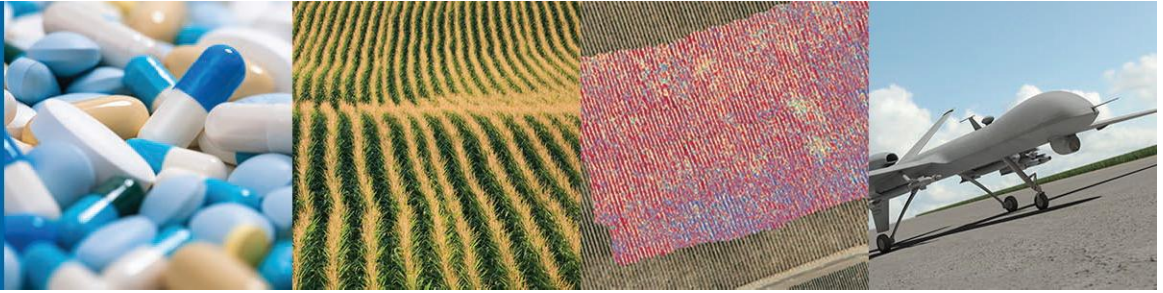


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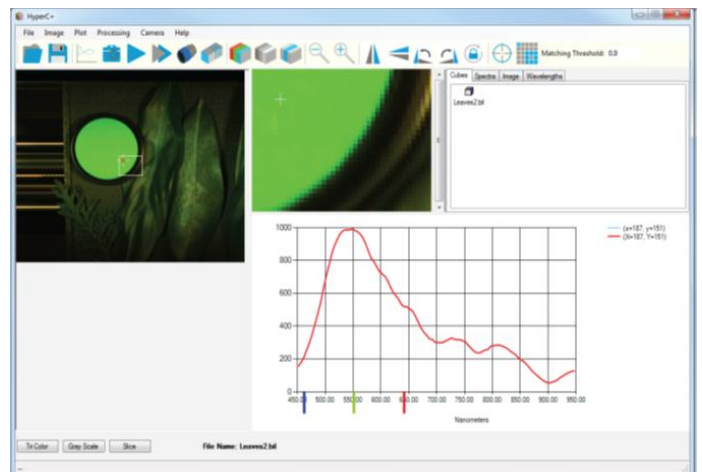
## Corning® microHSI™ 410 Hyperspectral Application Development Kit

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

The ADK is supported by a powerful 410 HSI sensor module that covers spectral ranges the 400-1000 nm spectral range. The lab-bench based vis-NIR ADK includes a high sensitivity patented vis-NIR HSI 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. 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.



Application Development Kit

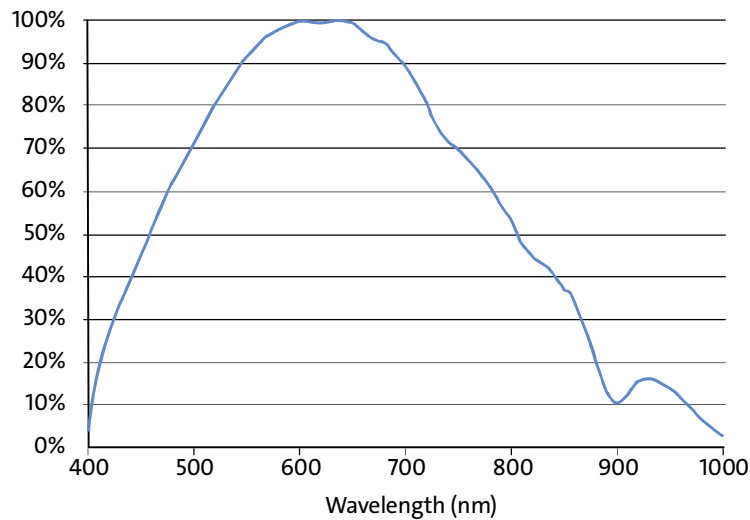


Sample HSI Screen Shot

## Vis-VNIR System Attributes

Spectral	Range (nm)	400 - 1000
	Pixels ( $\mu\text{m}$ )	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	5.0 nm (4X spectral pixel bin) <i>lower resolution possible</i>
	Dispersion (nm/pixel)	5.0 (4X binned)
2.5 (2X binned)		
1.25 (unbinned)		
Smile (pixels)	< 1.0 (unbinned)	
Keystone (pixels)	< 1.0 (unbinned)	
Spatial	Pixels ( $\mu\text{m}$ )	320 x 15 (4X binned)
		640 x 7.5 (2X binned)
		1280 x 3.75 (unbinned)
Resolution (pixels)	< 1.0	
fov (16 mm foreoptics) (degrees)	8.5	
Radiometric Size & Weight	f/#	1.4
	Dimensions - L x W x H (cm)	15.2 x 6.4 x 6.1
		10.9 x 6.4 x 6.1 (without foreoptics)
Weight (kg)	0.45	

Relative Spectral Response



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For more information, visit our website:  
[www.corning.com/advanced-optics](http://www.corning.com/advanced-optics)

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