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Hyperspectral Imaging Application Development Kit

Corning's Application Development Kit allows the development of hyperspectral technology applications and algorithms.

The HSI Application Development Kit (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 ADK kit hardware capabilities can grow with a user's needs.
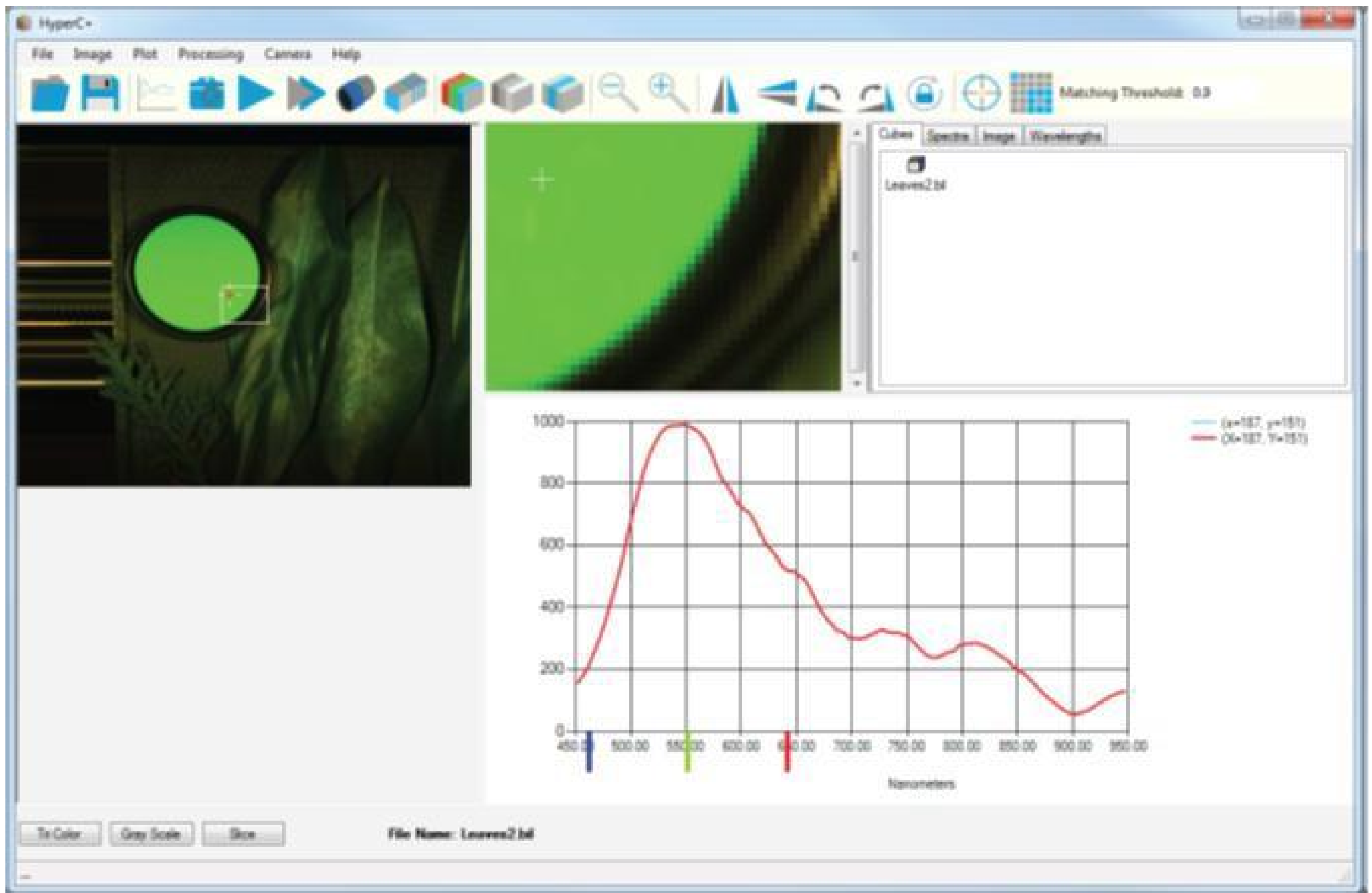
The ADK is supported by a family of powerful HSI sensor modules that cover spectral ranges from the visible, vis-NIR, NIR, SWIR, and LWIR spectral regions.

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 (included) running on a user supplied Windows based PC, laptop or tablet. 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).

For field work Corning offers an alternative configuration. The vis-NIR sensor is fitted with an optional plug-and-play optical scan head incorporating a servo-mirror capable of acquiring complete hyperspectral data-cubes. This simplifies collection of remote sensing data from larger scenes meters to kilometers away. This stand-alone scanning sensor is controlled by HyperC+ software installed on a tablet (included) via a mini-USB (providing power).

Application Development Kit

Sample HSI ADK Screen Shot

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For more information, visit our website:
www.corning.com/advanced-optics

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