



Model 4400
1000-1700nm SWIR



INTELLIGENT HYPERSPECTRAL IMAGING

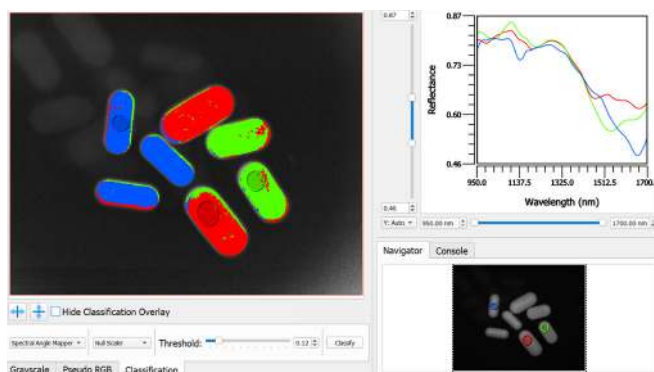
HinaLea's 4400 SWIR system represents the next generation of intelligent hyperspectral imagers. Based on front-staring Fabry Perot technology, the 4400 includes hardware and software required to support a broad range of hyperspectral imaging applications within the SWIR spectral region. Front-staring systems offer advantages over line-scanning technologies for environmental monitoring applications, most notably more versatile viewing geometry options. Such systems can be mounted statically as well as on airborne and ground unmanned vehicles.

One of the unique attributes of the 4400 system is its wavelength selectivity, which can be dynamically controlled based on the application and object to be imaged. The system allows a range of operational modes from high spectral resolution static image capture with hundreds of bands to near real-time image capture and classification with a few band-passes of interest in a multi-spectral configuration.

Line-scanning systems rely on constant conditions for optimum performance and are susceptible to subtle environmental changes that can adversely impact image uniformity. Because the 4400 images the entire area of interest at once, it can capture highly uniform images even in dynamic conditions.

Powerful Software

The 4400 SWIR system includes proprietary application software featuring fast and easy hyper-cube capture and intuitive image classification/segmentation as part of a suite of powerful spectral image exploration tools.



4400 TECHNICAL SPECIFICATIONS

MECHANICAL

Dimensions (LxWxH)	354mm (13.93") x 80mm (3.15") x 80mm (3.15").
Weight (Mass)	1.60 kg (3.52 lbs.)

ELECTRICAL

Input voltage	110 VAC at 60Hz / 220 VAC at 50Hz
Data interfaces	USB, Cameralink

ENVIRONMENTAL

Operating temperature	15° to 45° C
Humidity	65% non-condensing

SCAN PERFORMANCE

Standard lens	15° Field of View (FOV) – 0.5 m to ∞ Please consult us for other lens options.
Sensor spatial resolution	640 x 512 pixel (optional 1280 x 1024)
Spectral range	1000-1700 nm
Spectral bands	108 nominal
Spectral resolution	15 nm (FWHM)
Dynamic range	User selectable; 8- or 16-bit
Illumination	Optional

The material in this document is accurate at time of publication. HinaLea Imaging reserves the right to modify this information as it incrementally improves the product.

Contact us!

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