



Model 4200C
400-1000nm VIS-NIR



INTELLIGENT HYPERSPECTRAL IMAGING

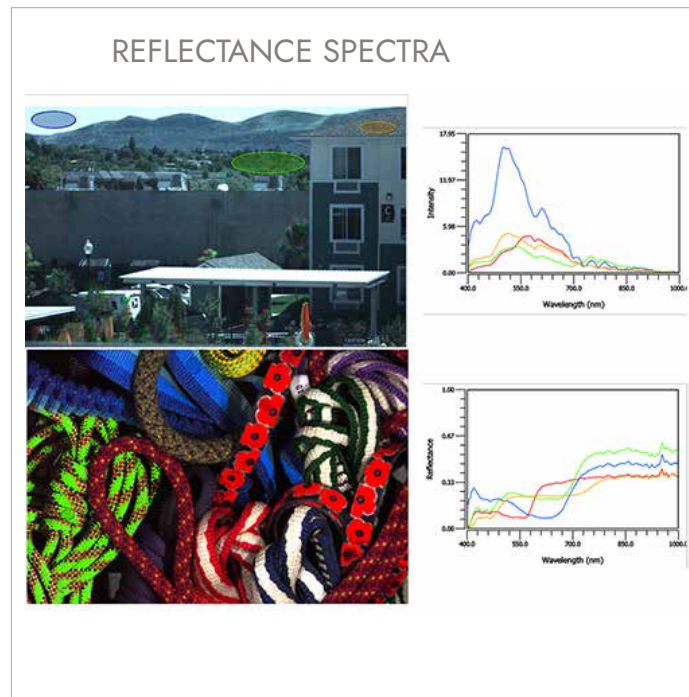
HinaLea's 4200C MiniVIS hyperspectral imaging sensor covers the 400-1000 nm spectral range in a small-form-factor, highly portable, lightweight package. Based on front-staring Fabry Perot technology, 4200C includes hardware and software required to support a broad range of hyperspectral imaging applications. Key specifications include 300 spectral bands at a spectral resolution of 4 nm (FWHM).

The 4200C captures a complete high-spatial-resolution image data-cube across the visible to near infrared spectral range in seconds, but can also be programmed to scan a subset of bands. The ability to dynamically control the sensor based on the application and object to be imaged optimizes data-capture and data-processing efficiency.

Thanks to its design, the HinaLea 4200C offers high spectral and spatial resolution without the image uniformity challenges of line-scanning and patterned filter snapshot multi-spectral imagers present. In addition, HinaLea has developed this new sensor to be small, lightweight, and affordable for straightforward deployment in a lab setting, in a production environment, or in the field.

Powerful Software

The 4200C VNIR 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.



4200C TECHNICAL SPECIFICATIONS

MECHANICAL

Dimensions (LxWxH)	85 mm x 59 mm x 70 mm (3.34" x 2.32" x 2.76")
Weight (Mass)	530 g (1.17 lbs.)

ELECTRICAL

Input voltage	110 VAC at 60Hz / 220 VAC at 50Hz
Data interfaces	USB 2.0, 3.0

ENVIRONMENTAL

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

SCAN PERFORMANCE

Standard lens	3.6 to 6° Field of View (FOV) – 300 mm to ∞. T-mount (M42x0.75)
Sensor spatial resolution	2.3 or 5 MP *
Spectral range	400-1000 nm
Spectral bands	300 nominal
Spectral resolution	4 nm (FWHM)
Dynamic range	User selectable; 8- or 16-bit
Illumination	Optional

* RGGB sensor; effective monochromatic equivalent 588,544 pixels and 2.5 MP, respectively for 2.3 and 5 MP sensors without demosaicing.

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.

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