



Model 4200C
400-1000nm VIS-NIR



INTELLIGENT HYPERSPECTRAL IMAGING

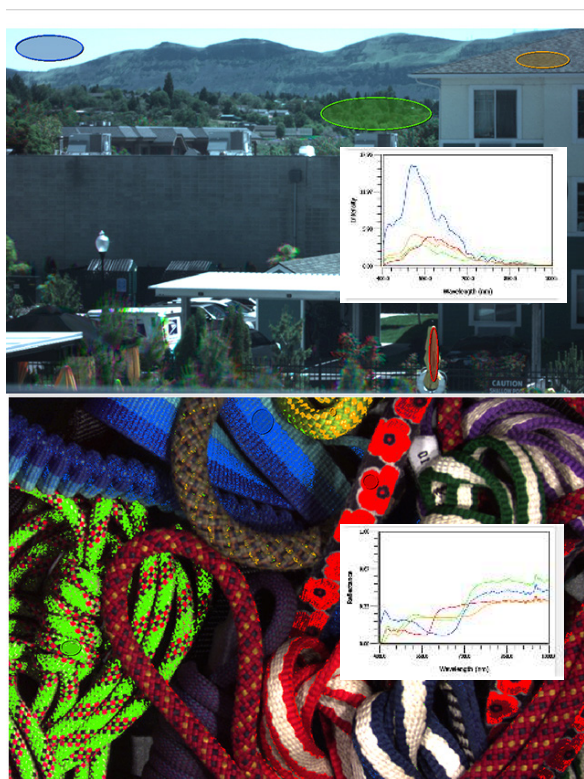
HinaLea's 4200C MiniVIS hyperspectral imaging sensor covers the 400-1000 nm spectral range in a small-form-factor, highly portable, lightweight package. Based on front-staring Fabry Perot technology, 4200C includes hardware and software required to support a broad range of hyperspectral imaging applications.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



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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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.