GRAND-EOS™ HYPERSONSPECTRAL CAMERA

GRAND-EOS combines a hyperspectral microscopy system with a hyperspectral wide-field imaging platform, giving access to micro and macro modalities with both VNIR (400-100 nm) and SWIR (900-1700 nm) spectral ranges. This imaging platform takes advantage Photon etc’s patented filtering technology based on volume Bragg grating providing a non-polarized wavelength selection with high throughput and efficiency. This filtering method allows imaging of large field-of-view, scanning through a user defined wavelength range. Using a megapixel sensor, the acquisition of filtered images provides spectral information from million of points at the surface of the sample. The versatility of GRAND-EOS as well as its high spatial and spectral resolution makes it an ideal tool for both fundamental research or industrial applications.

APPLICATION EXAMPLES:

» Photovoltaic characterization
» Mineral analysis
» Forensic
» Food and plants sorting
Photon etc. offers state-of-the-art optical analysis solutions. Its filtering patented technology based on Bragg gratings is dominantly used in its hyperspectral imaging platforms and to create widely tunable filter covering both the visible and near-infrared spectral range. From solar cells to live cells, its fast hyperspectral imaging systems provide solutions to the most challenging industrials problems, and give researchers access to the latest innovations in optical and photonic instrumentation. In addition to its recognized hyperspectral microscopy and wide-field systems, Photon etc. has developed unique near infrared cameras specifically adapted to industrial applications. As pioneers in hyperspectral imaging and filtering, Photon etc. is driven by its clients’ desires to surpass limitations in measurement and analysis.

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