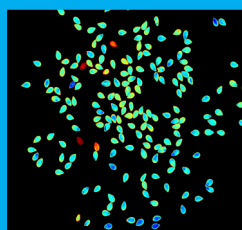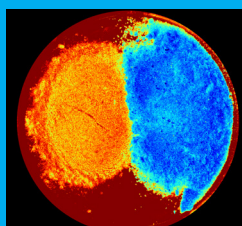Differences in flower species enhanced with MNF transformation algorithm.

Detection of roasted black sesame seeds versus white sesame seeds. Performed using nCDA algorithm.

Discrimination between to drink powders, cocoa (left) and chai (right), performed with nCDA algorithm.

VideometerLite+ is a complete and unique spectral imaging system.

SPECTRAL IMAGING MADE EASY

VideometerLite+

Take your quality inspection anywhere with the VideometerLite+. Videometer's portable spectral imaging solution is easy-to-use and straightforward. Its state-of-the art technology, with 15 different wavelengths, allows for accurate image analysis and inspection, that can be performed anywhere at any time.

The VideometerLite+ is the perfect instrument for cost-efficient analysis of your products in different contexts. From field to laboratory, the VideometerLite+ can be taken anywhere to assist your quality control measurements with a state-of-art-technology always at your hand.

VideometerLite+
KEY FEATURES AND ADVANTAGES

- Integrating sphere providing homogeneous and diffuse illumination.
- Spectral imaging and quantitative analysis in 5-10 seconds.
- 15 different wavelengths/illuminants.
- 12.3 Mpixels per wavelength providing 120-360 million pixels/image.
- Standardized instrument including easy-to-use instrument calibration.
- Superior color determination compared to traditional RGB technology.
- Automatic change of dynamic range, depending on the application.

- Long lifetime of the light sources. Up to 100.000 hours.
- Increased stability due to LED source technology.
- Powerful exploratory software for R&D.
- Recipe building tool for easy-to-use routine applications.
- Portable, cost-efficient solution allowing for analysis in multiple environments.
- Subscription-based access to VideometerLab Software for image analysis.

VideometerLite+
## TECHNICAL SPECIFICATIONS

Light sources	15 high power LED sources with a range from 405 nm to 960 (970) nm.
Image size	123 mm x 90 mm
Resolution	30 µm / pixel
Dynamic range	Optimized according to the application using autolight setup.
Calibration	Absolute reflectance calibration using 2 reflectance calibration targets and one geometric calibration target. Simple calibration wizard procedure that takes 3 minutes.
Sample size	Max. 123 mm x 90 mm.
Time of complete analysis	5 seconds per sample.
Dimensions instrument Dimensions flight case	308 mm(h) * 188 mm(w) * 239 mm(d) 400 mm(h) * 600 mm(w) * 278 mm(d).
Weight	2.2 kg
Power supply	110-240 VAC, 50/60 Hz.
Ambient temperature	Operation: 5-40 °C, Storage: –5-50 °C.
Ambient humidity	20-90 % RH non-condensing.
PC requirements	Minimum configuration: Intel i7 12th generation or better, 16 GB RAM, USB3 SuperSpeed port.
Software requirements	Microsoft Windows 10, or newer Professional 64 bit, full Windows update.
Hardware options	Handle. Face mount.
Software options	Blob toolbox. Classifier Design Tool (CDT).
Subscription	Annual subscription giving access to the VideometerLab Software. Renewal of the subscription required for the functioning of the VideometerLite device.

Videometer offers a wide range of multi spectral imaging instruments measuring what you see with your eyes – and beyond. They are fast, non-destructive, versatile, and reproduceable with world-leading accuracy. The accompanying Videometer software provides a unique variety of machine learning and AI spectral imaging analysis tools. Laboratory, at-line, on-line, and in-line systems are designed for quality assurance, process control, PAT, and product development.
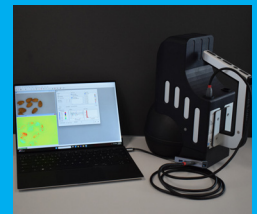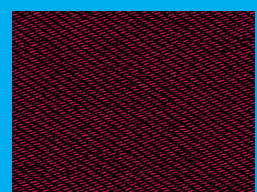

VideometerLite+ instrument connected to VideometerLab software, performing image analysis.
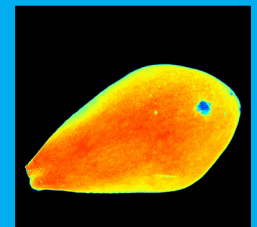
Plants and leaves are optimally analyzed with the VideometerLite+.

Skin imaging. Enhancement of skin details with MNF algorithm.

Detection of abrasion and graininess in denim.