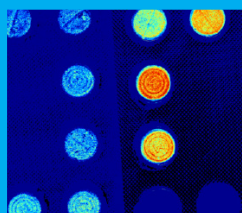
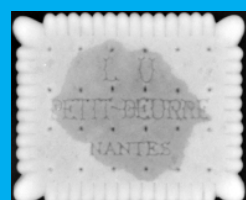


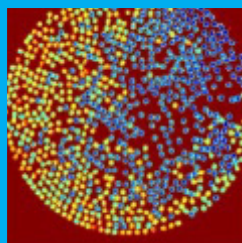
Fusarium detection
in cereals.



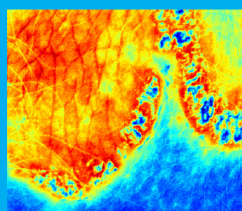
Counterfeit detection.



Moisture in biscuits.



Coating analysis of
granular products.



Skin imaging.



VideometerLab 4 is a
complete and unique
spectral imaging system.

SPECTRAL IMAGING MADE EASY

VideometerLab 4

VideometerLab 4 is a spectral imaging instrument designed for fast and accurate determination of color, texture, and chemical composition on surfaces up to 90*123 mm per image.

The instrument is an easy-to-use system integrating illumination, camera, and computer technology with advanced digital image analysis and statistics. Using strobed LED technology VideometerLab 4 combines measurements at up to 20 different wavelengths into a single high-resolution spectral image. Every pixel in the image is a reflectance spectrum and the instrument may include UV, visual, and NIR wavelengths.

VideometerLab 4

KEY FEATURES AND ADVANTAGES

- Integrating sphere providing homogeneous and diffuse illumination.
- Spectral imaging and quantitative analysis in 5-10 seconds.
- 19-20 different wavelengths/illuminants.
- Multispectral fluorescence option.
- Autofeeder option for granular products.
- 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.
- Combined frontlight and backlight using optional backlights.
- Automatic movement of illumination in relation to the sample.
- Powerful exploratory software for R&D.
- Recipe building tool for easy-to-use routine applications.



Videometer A/S · Hørkær 12 B, 3 · DK-2730 Herlev · Denmark
Tel +45 4576 1077 · mail@videometer.com · www.videometer.com

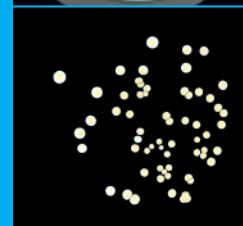
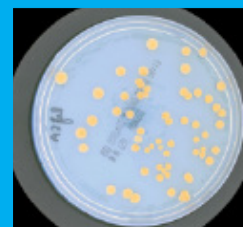
VideometerLab 4

TECHNICAL SPECIFICATIONS

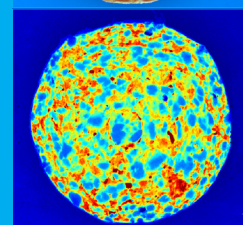


Light sources	19 high power LED sources with a range from 365 nm to 970 nm. One optional external light source.
Image size	4096 * 3000 pixels.
Resolution	30 µm / pixel.
Dynamic range	Optimized according to the application using autolight setup.
Calibration	Absolute reflectance calibration using 2 reflectance calibration targets and one geometric calibration target. Simple calibration wizard procedure that takes 3 minutes.
Sample size	Free height max. 90 mm, field-of-view 90x123mm.
Time of complete analysis	5-10 seconds per sample.
Dimensions instrument	460-560 mm(h) * 430 mm(w) * 600 mm(d)
Dimensions flight case	570 mm(h) * 500 mm(w) * 710 mm(d).
Weight	13.2 kg (Net), 25.1 kg (Gross).
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, 32 GB RAM, USB3 SuperSpeed port.
Software requirements	Microsoft Windows 11 Professional 64 bit, full Windows update.
Hardware options	Brightfield backlight. Darkfield frontlight. Filter changer (for combined reflectance/fluorescence). VideometerLiq for liquid stability. Topshade for glossy samples. Autofeeder (for granular products). Deep UV-excitation light source 270-340 nm.
Software options	Spectral imaging toolbox (MSI) Blob toolbox Classifier Design Tool (CDT)

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 reproducible 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.



Colony counting.



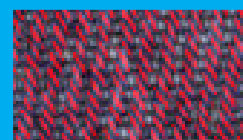
Salami fermentation.



Powder analysis.



Pore structure analysis.



Textile analysis.



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