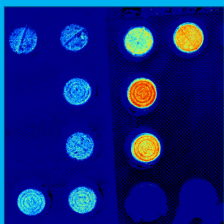


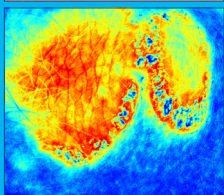
Fusarium detection in cereals.



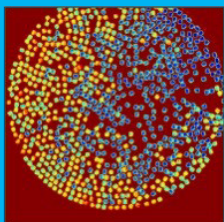
Counterfeit detection.



Moisture in biscuits.



Skin imaging.



Coating analysis of granular products.



VideometerLab 4 is a complete and unique spectral imaging system.

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 x 90 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.
- 6 or 9.1 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 • Lyngsø Allé 3 • DK-2970 Hørsholm • Denmark
Tel +45 45761077 • mail@videometer.com • www.videometer.com

VideometerLab 4

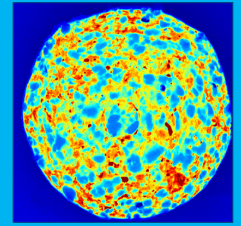
Technical specifications

Light sources	19 high power LED sources with a range from 365 nm to 970 nm. One optional external light source.
Image size	2192 × 2192 pixels (optional 3000 × 3000)
Resolution	~41 μm / pixel (optional ~30 μm)
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, diameter of inspection opening 110 mm
Time of complete analysis	5-10 seconds per sample
Dimensions instrument	490-585 mm(h) × 420 mm(w) × 590 mm(d)
Dimensions flight case	570 mm(h) × 500 mm(w) × 710 mm(d)
Weight	14.1 kg (Net), 26.6 kg (Gross)
Power supply	100-240 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 or better, 16 GB RAM, USB2 port, USB3 SuperSpeed port
Software	Microsoft Windows 7/8.1/10 Professional 64 bit, full Windows update
Hardware options	Darkfield/brightfield backlight Filter changer (for fluorescence) Autofeeder (for granular products)
Software options	Image processing toolbox (IPT) Spectral imaging toolbox (MSI) Blobs toolbox

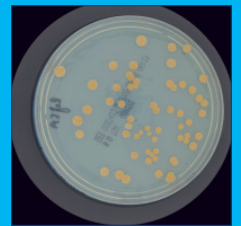
Videometer offers a wide range of multi spectral imaging instruments measuring what you see with your eyes – and beyond. They are fast, non-destructive, versatile, and reproducible with world-leading accuracy. The accompanying Videometer software provides a unique variety of machine learning and AI spectral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



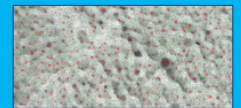
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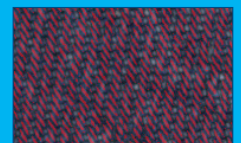
Salami fermentation.



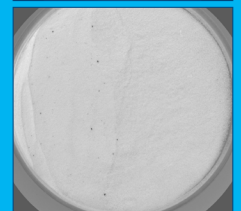
Colony counting.



Pore structure analysis.



Textile analysis.



Powder analysis.