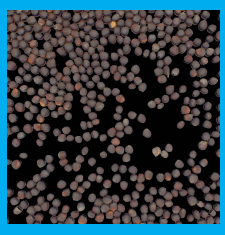

Oilseed Rape

Barley

Corn

Wheat

Granular Products with Videometer MiniLab

The portability of the Videometer MiniLab makes it the perfect instrument for in-field analysis of seed and grain.

Videometer MiniLab

To be used everywhere, Videometer MiniLab, is a portable and wireless spectral imaging device designed for easy, straightforward and accurate image analysis.
The instrument, with its state-of-the art technology, allows for the determination of color, texture and chemical composition on surfaces up to 100 mm in diameter per image.

Using strobed LED systems, Videometer MiniLab, efficiently combines the measurements of 7 wavelengths into a single spectral-image, where each and every pixel corresponds to a different reflectance spectrum.
The device can include visual and NIR wavelengths for a precise, accurate and thorough quality inspection of foods, grains, crops and more.

Videometer MiniLab
KEY FEATURES AND ADVANTAGES

- Integrating sphere providing homogeneous and diffuse illumination.
- Cost-efficient solution.
- Spectral imaging and quantitative analysis in 7-8 seconds.
- 7 different wavelengths/illuminants.
- Portable, wireless, battery powered.
- Multispectral fluorescence option.
- 1520x1520 pixels per wavelength image resolution.
- 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.
- Combined frontlight and backlight using optional backlights.
- Powerful exploratory software for R&D.
- Recipe building tool for easy-to-use routine applications.

Videometer

Videometer A/S · Hørkær 12 B, 3 · DK-2730 Herlev · Denmark
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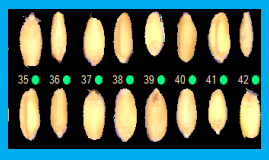
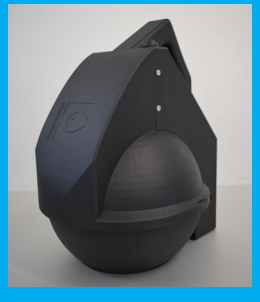
Videometer MiniLab
TECHNICAL SPECIFICATIONS

Light sources	7 different wavelengths, powered by LEDs with a range 405 nm-850 nm.
Image size	1520 * 1520 pixels.
Resolution	~65 µm / pixel
Dynamic range	Optimized according to the application using autolight setup.
Calibration	Absolute reflectance calibration using 1 reflectance calibration target. Simple calibration wizard procedure that takes 4 minutes.
Sample size	Field of view 100x100mm.
Time of complete analysis	7-8 seconds per sample.
Dimensions instrument	270 mm(h) * 240 mm(w) * 200 mm(d)
Weight	1.1 kg
Power supply	5 V DC 3 A
Ambient temperature	Operation: 5-40 °C, Storage: –5-50 °C.
Ambient humidity	20-90 % RH non-condensing.
PC requirements	Minimum configuration: Intel i7 10th generation or better, 16 GB RAM
Software requirements	Microsoft Windows 10 Professional 64 bit, full Windows update.
Hardware options	Videometer MiniLiq for liquid stability analysis.
Software options	Image processing toolbox (IPT). Spectral imaging toolbox (MSI). Blob toolbox. Classification Design Tool (CDT).



Get a precise count of your seed and grain samples with the Videometer MiniLab grain count application.



The Videometer MiniLab's different sides.

Videometer offers a wide range of multispectral 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.

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