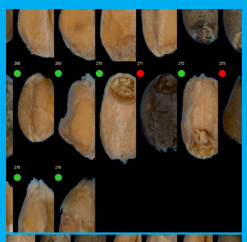
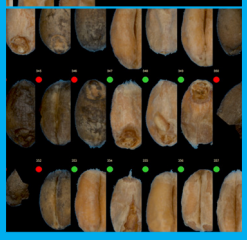
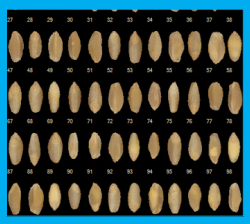
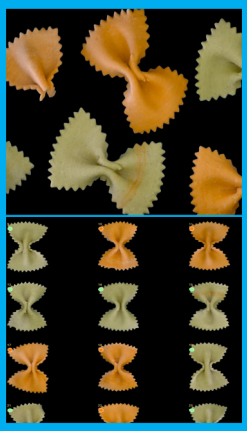




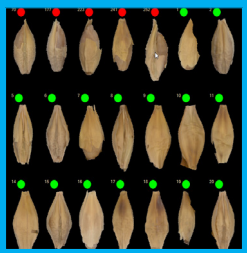
Burnt (red) vs. healthy (green) wheat in Blob Analyzer Software.



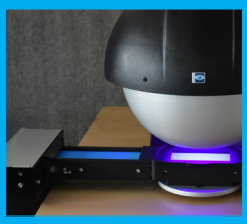
Common wheat vs. durum wheat.



Green pasta vs. orange pasta segmentation and classification.



Barley skinned (red) vs. healthy (green).



The SeedSorter is integrated with the VideometerLab with Autofeeder

SPECTRAL IMAGING MADE EASY

VideometerLab SeedSorter

Enhance the capacity of your VideometerLab with the Videometer SeedSorter – a complete system capable of analyzing, classifying and physically sorting your products with the aid of powerful mechanical fingers.

The SeedSorter is designed for seeds with a width of approximately 1.5–2 mm or more, ensuring accurate and consistent physical partitioning.
Each sample is divided into two precise classes: a pure fraction and a second fraction containing off-types or uncertain seeds. This gives you clean, reliable separation every time.

VideometerLab SeedSorter
KEY FEATURES AND ADVANTAGES

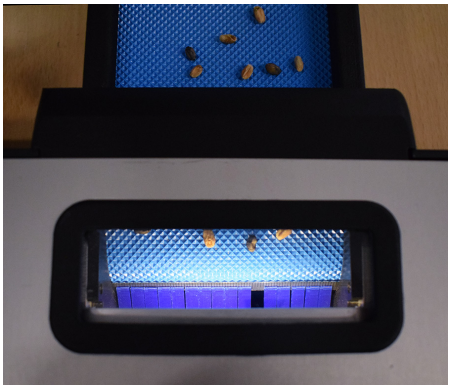
- Integrating sphere providing homogeneous and diffuse illumination.
- Spectral imaging and quantitative analysis in 5-10 seconds.
- 19-20 different wavelengths/illuminants.
- Multispectral fluorescence option.
- Autofeeder add-on for feeding of samples
- 12.3 Mpixels per wavelength providing 120-360 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

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

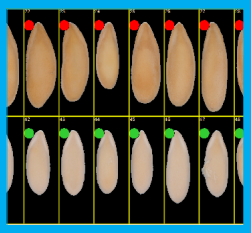
Sample size	Standard up to 1.5 liter. Larger sample sizes possible by customization
Sample Throughput	Spinach Seeds: 200g in 30 minutes with 1% impurities. Wheat: 50g in 10 minutes with 50% impurities. Speed depends on percentage of impurities and acceptance.
Sample Distribution	Vibrator unit with adjustable vibration profiles for different sizes and types of granular products.
Software	The SeedSorter option is controlled with the VideometerLab BlobAnalyzer tool. Interfacing with external sample feeding is possible via customized software plug-in.
Dimensions instrument Dimensions flight case	460-560 mm(h) * 430 mm(w) * 600 mm(d) 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 Software requirements	Minimum configuration: Intel i9 12th generation or better, 64 GB RAM, USB3 SuperSpeed port. Microsoft Windows 11 Professional 64 bit, full Windows update.



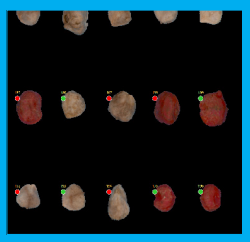
Mechanical fingers sorting impure wheat.

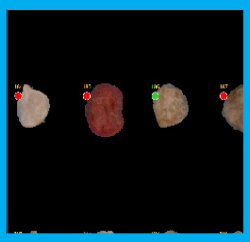
VideometerLab SeedSorter.

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.



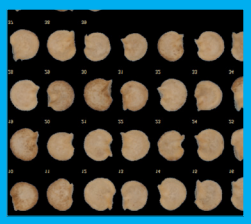
Melon seed classification model.



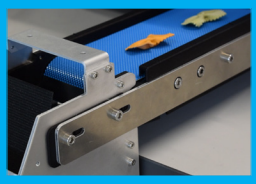


Spinach seed classification model..

Dark seeds vs. light seeds.



Pepper seeds imaged, segmented and collected as blobs for modelling.



The SeedSorter fingers can be customized for different product sizes.

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