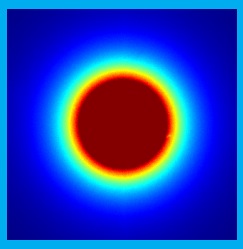
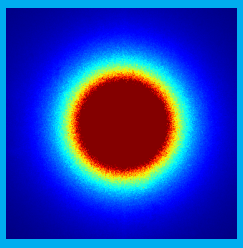
With the system you can measure texture and viscosity in food products within two seconds.

VideometerSLS is a complete and unique sub-surface laser scattering and surface gloss topography.



A viscous product before acidification.



Same viscous product after acidification.

Laser scattering made easy

VideometerSLS

VideometerSLS is a fast, and non-contact measurement technology packaged for ease-of-use in the laboratory or at-line in production. It measures several parameters for efficient characterization of viscous products. **VideometerSLS** has a combination of two measurement principles and on top the advanced Videometer imaging software. The two measurement principles are sub-surface laser scattering and surface gloss topography.

VideometerSLS
key features and advantages

- Integrating Sub-surface laser scattering. Measurement of light scattering from one or more laser beams. The Laser beams enter the product and will be scattered due to refraction and reflection. Images of the surface and the scattered beams can be used for calculation of parameters characterizing the concentration and size distribution of air bubbles and constituents, viscosity, mouth feel etc.
- Surface graininess texture. Images of the surface from reflections of the light from multiple LED spots will be used for calculation. A surface with graininess will have a more distinct texture than a glossier surface. The result tells something about graininess, gloss and whey on the surface.

Videometer

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

Light sources	High power LED sources and laser sources. All sources are within the visual spectrum (400–800nm) class 3R.
Image size	2192 * 2192 pixels (optionally 2992 * 2992).
Resolution	~40 µm / pixel (optionally ~30 µm).
Dynamic range	Optimized light setup according to instrument and type of application.
Sample size	Standard 130 – 155 ml. Can be customized.
Time of complete analysis	2 seconds per sample, including calculation.
Dimensions instrument **Dimensions flight case**	450 mm(h) * 220 mm(w) * 30 mm(d). 650 mm(h) * 420 mm(w) * 50 mm(d).
Weight	7 kg (Net), 9 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 8th generation or better, 16 GB RAM, USB3 SuperSpeed port.
Software requirements	Microsoft Windows 10 Professional 64 bit, full Windows update.
Hardware options	Upgrade to more LEDs or lasers.
Software options	Image processing toolbox (IPT). Session model builder. Automated time screening. Development of customized calibrations for texture measurements.

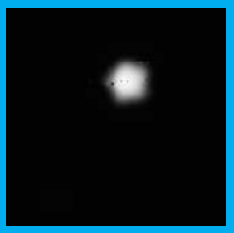

Image from the surface and the LED reflection – a nice glossy product.

Imaging based on a combination of: Sub-surface laser scattering and surface gloss topography.

Yoghurt quality, mouth feel, graininess and fat particle size distribution.

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.

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