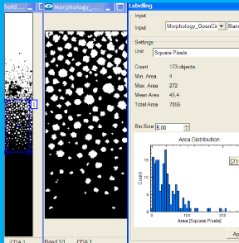




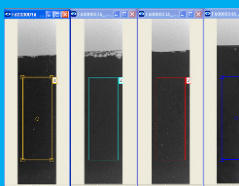
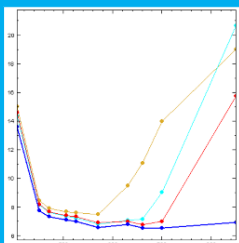
Get an accurate overview of the stability over time.



VideometerLiq for stability and instability of emulsions, suspensions and foams.



Bubble formation analysis.



Caramel color change – undiluted.



VideometerLiq is a complete and unique spectral imaging system for liquids. The measurements are accurate and objective.

LIQUID STABILITY ANALYSIS

VideometerLiq

VideometerLiq is an easy-to-use spectral imaging instrument for fast and accurate determination of stability/instability in liquid products. It is a complete system integrating strobed LED technology, camera, and computer technology with advanced digital image analysis and statistics. VideometerLiq is a dual purpose instrument and is reconfigured into a VideometerLab in just 5 minutes.

VideometerLiq

KEY FEATURES AND ADVANTAGES

- 19 reflectance images from UV to NIR.
- NIR transmission image for turbidity.
- 30-40 µm/pixel resolution.
- Complete measurement within seconds.
- Easy and accurate calibration.
- Adaptable bottle fixture.
- Includes a VideometerLab instrument.

Application examples are emulsions, yoghurt, drinks, juices, paints, cosmetics, and coffee whitener.

VideometerLiq generally provides a better understanding of why some products are stable and others are not. It is designed for measuring shelf life stability for liquid products.



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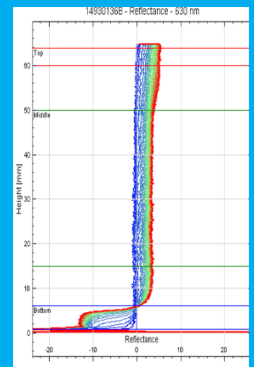
VideometerLiq

TECHNICAL SPECIFICATIONS

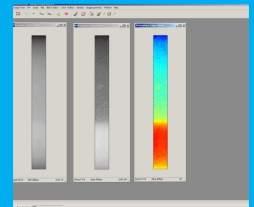


Light sources	19 diffuse frontlight high power LED sources with a range from 365 nm to 970 nm. One NIR brightfield backlight.
Image size	2192 × 2192 pixels (optionally 3000 × 3000).
Resolution	~40 μm / pixel (optionally ~30 μm).
Dynamic range	Optimized according to the application using autolight setup.
Calibration	Absolute reflectance calibration using 2 reflectance calibration targets and one geometric calibration target. Simple calibration wizard procedure that takes 3 minutes.
Sample size	Diameter of inspection opening 110 mm.
Consumables	Disposable Cell culturing bottles 50 ml with valve. Optional sterile. Maximum filling level for the bottles is 62 mm.
Time of complete analysis	5-10 seconds per sample.
Dimensions instrument	480 mm(h) × 585 mm(w) × 590 mm(d)
Dimensions flight case	570 mm(h) × 500 mm(w) × 710 mm(d).
Weight	21.0 kg (Net), 33.5 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 or better, 16 GB RAM, USB2 port, USB3 SuperSpeed port.
Software requirements	Microsoft Windows 10 Professional 64 bit, full Windows update.
Hardware options	Filter changer (for combined reflectance/fluorescence).
Software options	Image processing toolbox (IPT) Spectral imaging toolbox (MSI) Blob 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. Laboratory, at-line, on-line, and in-line systems are designed for quality assurance, process control, PAT, and product development.



Chocolate milk marbling and sediments.



Unstable emulsion.

Example properties measured using VideometerLiq

- Color and color changes.
- Turbidity and haze.
- Layering and sediments.
- Bubble and particle formation.
- Marbling.

