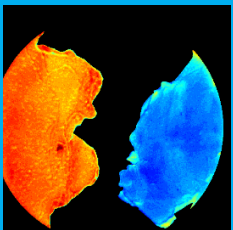


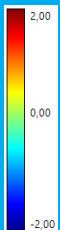
VideometerLab UV may be used for detection of materials reflecting UV light like e.g. enzymes.



Measuring rancidity of margarine



Oxidised left and fresh right



VideometerLab UV is a complete and unique spectral imaging system.

spectral imaging made easy

# VideometerLab UV

**VideometerLab UV** is a spectral imaging instrument designed for fast and accurate determination of texture, and chemical composition on surfaces up to 90\*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 UV** combines measurements at up to 20 different wavelengths into a single high-resolution spectral image. Every pixel in the image is a reflectance spectrum from the instrument's included UV wavelengths.

## VideometerLab UV 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 12.3 Mpixels per wavelength providing 120–360 million pixels/image.
- Standardized instrument including easy-to-use instrument calibration.
- Superior texture determination compared to traditional 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.



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Tel +45 4576 1077 · mail@videometer.com · www.videometer.com

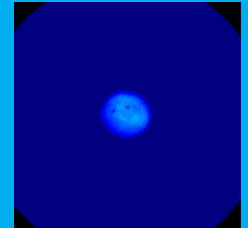
# VideometerLab UV technical specifications



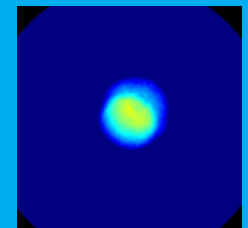
<b>Light sources</b>	19 high power LED sources with a range from deep UV230 nm to 405 nm. One optional external light source.
<b>Image size</b>	2192 * 2192 pixels (optionally 2992 * 2992).
<b>Resolution</b>	~40 µm / pixel (optionally ~30 µm).
<b>Dynamic range</b>	Optimized according to the application using autolight setup.
<b>Calibration</b>	Absolute reflectance calibration using 2 reflectance calibration targets and one geometric calibration target. Simple calibration wizard procedure that takes 3 minutes.
<b>Sample size</b>	Free height max. 90 mm, diameter of inspection opening 110 mm.
<b>Time of complete analysis</b>	5–10 seconds per sample.
<b>Dimensions instrument</b>	490–585 mm(h) * 420 mm(w) * 590 mm(d)
<b>Dimensions flight case</b>	570 mm(h) * 500 mm(w) * 710 mm(d).
<b>Weight</b>	14.1 kg (Net), 26.6 kg (Gross).
<b>Power supply</b>	110–240 VAC, 50/60 Hz.
<b>Ambient temperature</b>	Operation: 5–40 °C, Storage: –5–50 °C.
<b>Ambient humidity</b>	20–90 % RH non–condensing.
<b>PC requirements</b>	Minimum configuration: Intel i7 8th generation or better, 16 GB RAM, USB2 port, USB3 SuperSpeed port.
<b>Software requirements</b>	Microsoft Windows 10 Professional 64 bit, full Windows update.
<b>Hardware options</b>	Darkfield/brightfield backlight. Darkfield frontlight. Filter changer (for combined reflectance/fluorescence). Autofeeder (for granular products).
<b>Software options</b>	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.

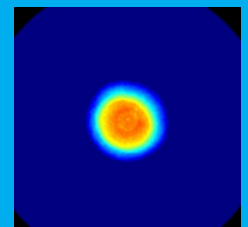
## Canola oil authenticity



Fresh



50/50 mix



Oxidised

