

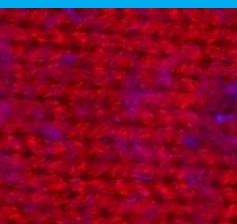
Chocolate blooming detected with Videometer MultiRay.



Quality of pharmaceutical tablet pressing with Videometer MultiRay seen from top of tablet (top) and side (bottom).



Surface texture analysis of blank paper.



Fuzz and pill detection on wool sweater.



The Videometer MultiRay is superior for objective measurements of  $\mu$ -topography and gloss.

# VideometerMultiRay

The Videometer MultiRay is a handheld imaging device for fast, non-destructive measurement of  $\mu$ -topography, graininess, gloss, and porosity. It integrates illumination, camera, and computer technology for easy, high-resolution analysis using advanced image processing and statistics. Ideal for quantitative gloss and texture evaluation, it can also assess size and shape distributions. Each pixel represents local gloss and topography, with surface properties summarized through statistical texture analysis.

## VideometerMultiRay

### KEY FEATURES AND EXAMPLES

- Integrating sphere providing homogeneous and diffuse illumination.
- Captures surface finish characteristics gloss/graininess.
- Instantaneous measurements of 20mm x 25mm with 5  $\mu$ m/pixels.
- Powerful exploratory software and recipe building tool for routine applications.
- Subscription-based access to VideometerLab Software for image analysis.
- Quantification of scratches and fine texture.
- Fat crystallization in chocolate blooming.
- Graininess in emulsions like yoghurt and mayonnaise.
- Quality of pharmaceutical tablet pressing.
- Gloss/shine of fruit and vegetable surfaces.
- Bubble size distribution in coffee foam.
- Surface texture of anodized materials.
- Fuzz and pills on textile fabrics.
- Latent fingerprint detection.



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# Videometer MultiRay

## TECHNICAL SPECIFICATIONS

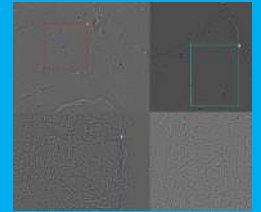


Light sources	Coaxial, ringlight and laser.
Image size	20 mm x 25 mm
Resolution	5 $\mu\text{m}$ / pixel
Dynamic range	Standard field-of-view 10mm x 7.5mm.
Calibration	Calibration procedure using customer selected calibration target and sandpaper grit size 80. Simple calibration wizard procedure taking 30 seconds.
Sample size	Max. 123 mm x 90 mm.
Time of complete analysis	5 seconds per sample.
Dimensions instrument	310mm(h) * 156 mm(w) * 220 mm(d)
Dimensions flight case	400 mm(h) * 600 mm(w) * 278 mm(d).
Weight	2.3kg
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 12th generation or better, 16 GB RAM, USB3 SuperSpeed port.
Software requirements	Microsoft Windows 11 Professional 64 bit, full Windows update.
Hardware options	Optional 405nm laser module
Software options	Blob toolbox. Classifier Design Tool (CDT).
Subscription	Annual subscription giving access to the VideometerLab Software. Renewal of the subscription required for the functioning of the VideometerLite device.

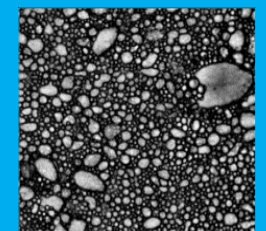
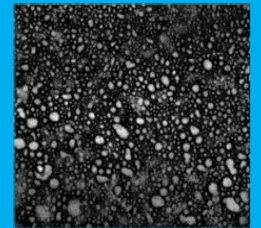
Videometer offers a wide range of multi spectral imaging instruments measuring what you see with your eyes – and beyond. They are fast, non-destructive, versatile, and reproduceable with world-leading accuracy. The accompanying Videometer software provides a unique variety of machine learning and AI spectral imaging analysis tools. Laboratory, at-line, on-line, and in-line systems are designed for quality assurance, process control, PAT, and product development.



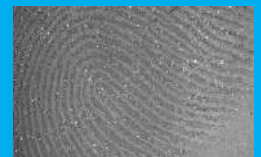
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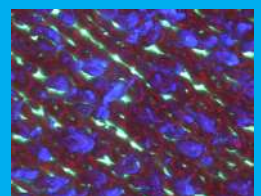
Mayonnaise gloss and graininess analysis with Videometer MultiRay.



Coffee foam bubble distribution detected with Videometer MultiRay.



Latent fingerprint detection MultiRay image vs. Darkfield.



Microfiber surface analysis.