

Customized vision systems

VideometerLine

Quality control, process control, and PAT



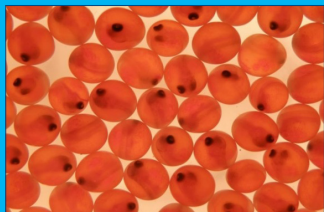
Automated spectral imaging systems.



Robot guidance.



Baked product inspection.



Sorting of fish eggs based on fish eye size.



Quality inspection of seed and grains.

VideometerLine

VideometerLine is a powerful platform for building customized solutions for in-line and on-line quality and process control that secure product quality. Videometer technology provides sublime accuracy, high robustness and highly reproducible measurements.

VideometerLine Key technologies

VideometerLine solutions are based on a unique patented technology for accurate analysis of colors, physical texture and chemical composition. These features are in general difficult to achieve using traditional analysis methods such as subjective manual assessment, color sensors, color cameras, or spectral analyses on homogenized samples.

Three core imaging technologies are offered in Videometer solutions using state-of-the-art light emitting diodes (LEDs) and laser illumination technology.

Spectral imaging combines multiple images at different wavelengths using the same diffuse illumination geometry. This technology obtains a spectrum for each pixel and is especially

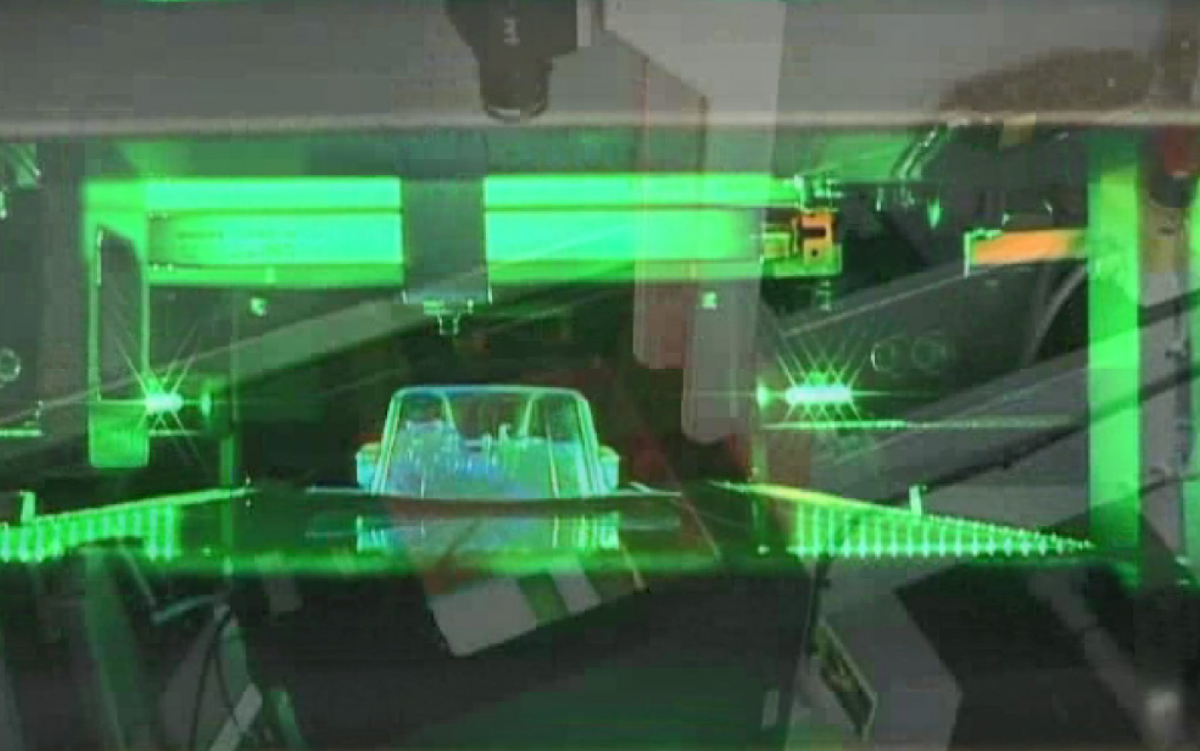
suited for mapping the surface chemistry and color of the sample.

Multiray imaging combines multiple images with different illumination geometry. The multiray technology deals effectively with many physical surface measurements such as gloss, graininess, porosity, or microtopography.

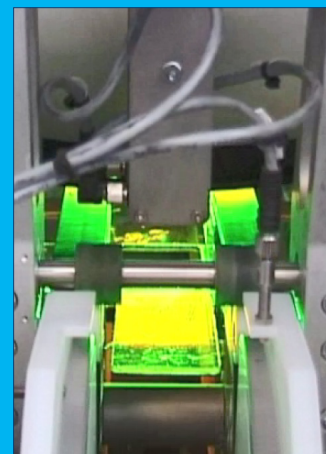
3D imaging based on laser triangulation or fringe projection profilometry provides accurate assessment of 3D shape and volume. The three core technologies can be integrated into one powerful solution that provides a complete record of product quality and appearance.



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Sealing inspection.



Medical device inspection.



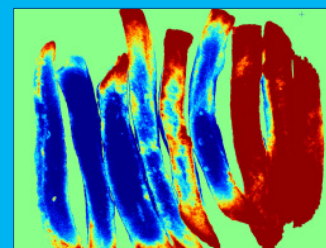
Automated greenhouse system.



Multi spectral imaging.



Color sorting.



Browning of French fries.

VideometerLine

Key features and advantages

- Configurable hardware platform
- Spectral imaging module
- Multiray imaging module
- 3D imaging module
- Robot guidance module
- Configurable software platform
- Production module
- Calibration module
- User control module
- Process control module
- Database interface module
- Graphical user interface

Application domains

- Agricultural products, food, and feed
- Pharmaceuticals and cosmetics
- Medical devices and material properties
- Automated visual inspection in production
- Robot guidance in manufacturing and lab automation

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. In laboratory, at-line, on-line, and in-line systems are designed for quality assurance, process control, PAT, and product development.

How to get started

In close cooperation with our customers we create a requirement and design specification and clarify the value proposition resulting from more efficient processes and improved product quality.

Turn-key projects through cooperation

Videometer may in cooperation with selected machine builders offer turn-key solutions. We are pleased to take the total responsibility of automated sample presentation for the vision system as well as the following sorting, rejection of faulty parts, and packaging.

Why you should choose Videometer development projects

- We put the customer first
- World-leading technological competences
- Solutions based on full optimization of all parts of the system
- Fast, accurate, robust, and reproducible analysis



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