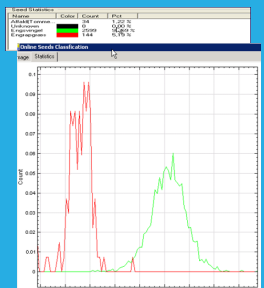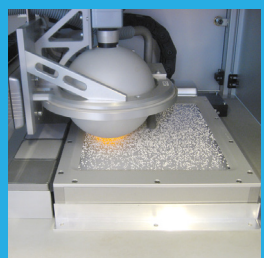Multispectral scanning of sample.

Classification of grass seeds - detection of weed seeds and foreign material.

Length distribution for a mixture of grass seeds.

The fast and reliable result makes the system unique for testing of finished products as well as production control.

Use VideometerLabXY wherever purity, size, shape and specific impurities make the difference.

An automated granule/seed laboratory

VideometerLabXY

VideometerLabXY is a tailor-made spectral imaging system for the seed and pharmaceutical industry. It is designed for fast and accurate measurements of large samples. The unit is an automated system integrating illumination, camera, and computer technology with advanced digital image analyses and statistics.

The instrument has an in-feed system based on a presentation tray and a vibration and vacuum system for automatic distribution and removal of the samples after measurement. The fast and reliable result makes **VideometerLabXY** unique for testing of products as well as for production control.

Key Features and Advantages

• Integrating sphere providing homogeneous and diffuse illumination.

• 9+4 different wavelengths/illuminants. combined frontlight and backlight.

• Main parameters measured are related to shape, color and texture:

• Count and histograms (length and width).

• Count of specific impurities and other characteristics.

• Recipe building tool for easy-to-use routine applications.

• 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.

• Standardized instrument including easy-to-use instrument calibration.

• Powerful exploratory software for R&D.

VideometerLabXY

Technical Specifications

Dimensions	130 cm (h) x 78 cm (w) x 90 cm (d)
Light sources	Up to 9 channels diffuse front-light and 2 channels back light. Wavelength selection can be customized to specific products
Camera	High resolution camera with 4000x3000 pixels
Optics	Special full-spectrum lens. Resolution 0,018 mm per pixel.
Sample size	Depends on weight density of product. Area of presentation plate: 900 cm2
Time of analysis	4-5 minutes including distribution and removal of product, depending on product coverage and complexity of model. The automatic removal takes app. 1 minute and can alternatively be done manually.
Calibration	Automatic instrument calibration.
Weight	200 kg
Power supply	240 Volt, 13 amps.
Ambient temperature	Operation: 5-40 °C, Storage: -5-40 °C
Ambient humidity	20-90% RH non-condensing
PC requirements	Minum configuration; Stationary PC, i7 CPU, 32GB RAM
Software requirements	Windows XP SP3, WIndows .net framework 3.0

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 reproduce-able with world-leading accuracy.
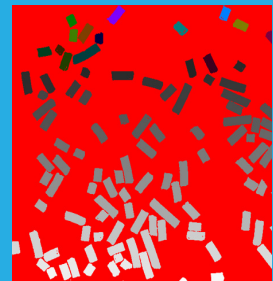
The accompanying Videometer software provides a unique variety of machine learning and AI spectral imaging analysis tools. Laboratory, at-line, on-line, and in-line systems are de-signed for quality assurance, process control, PAT, and product development.
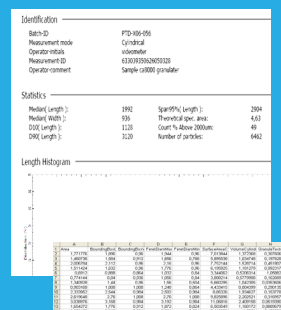
Easy to use.

Segmentation of granules using backlight illumination

Labelling of granules with touching granules separated.

Customized batch report and data result file.