

Spray Pattern Inspection

Spray pattern inspection can be performed on a wide range of products

It is important to determine the spray patterns quantitatively, since the uniformity and symmetry of the spray produced by atomizers is a crucial parameter in most practical applications.

The spray pattern inspection system is an automatic tool for spray process monitoring in production quality control.

The spray pattern inspection system illuminates a selected cross section of the spray using a laser light sheet. Light scattered from illuminated droplets is recorded with a CCD camera.

The light intensity at a given location on the recorded image is analysed and the distribution of droplets within the spray pattern is calculated. Through a set of tolerances the given reject/accept limits can be chosen.

Features

- Quantitative spray pattern inspection
- High resolution
- Wide range of liquid and solid sprays
- Online capability
- Flexible, compact and portable design
- Fast, efficient and robust results
- Non-intrusive
- User-friendly software
- Internet connectivity

General

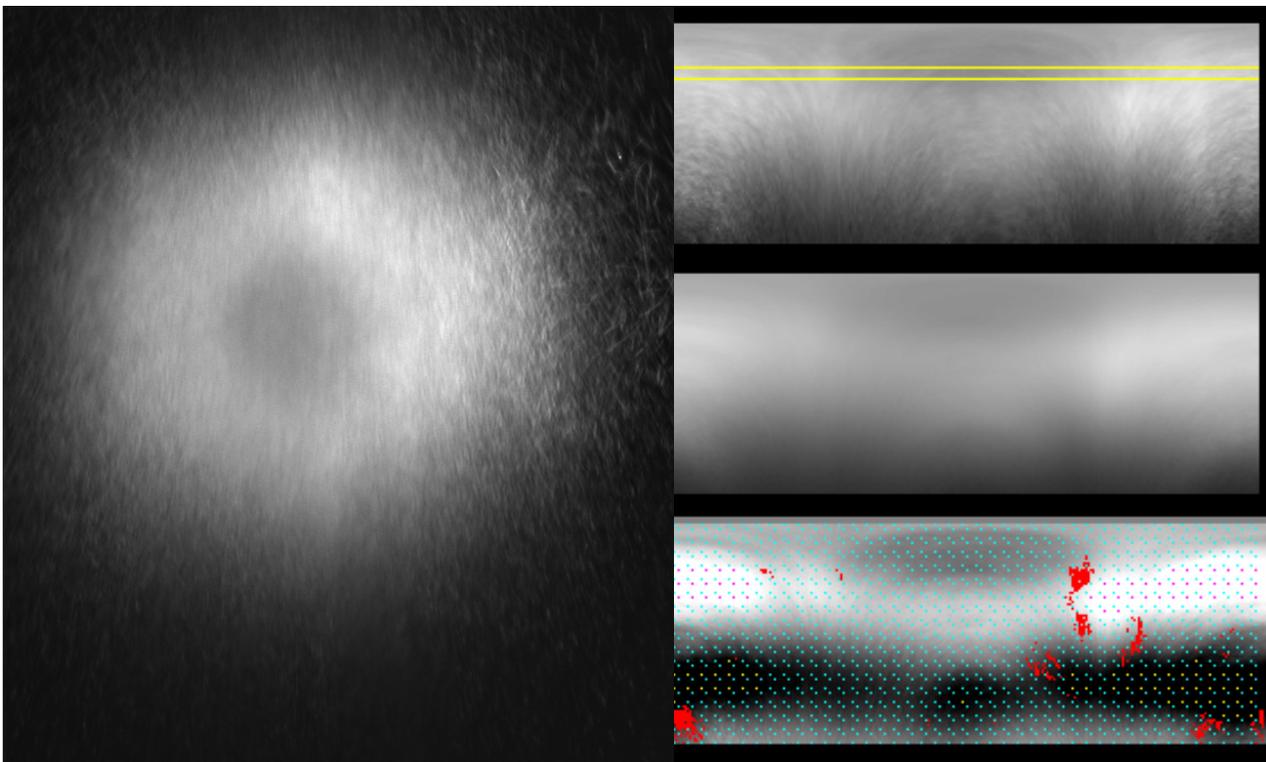
Capacity:	10 object/s
Cameras:	Industrial high resolution CCD
Sensing area:	Depends on spray size/type
Operating temperatures:	+5° C to +30° C
Humidity:	Designed for wet environment
Power:	110V, 60Hz or 230V, 50Hz
Lamp life:	> 3 years
Computer:	Industrial vision PC's
Monitor:	21" flat screen
Dimensions: W x H x D	1 m x 1 m x 1 m

Measurements

Detects:	Leaks, stripes, symmetry, uniformity, skewness, spray angle, pulsation.
Accuracy:	Depends on spray pattern and spray size.

Interface

Vision input/output:	24V, Input: Product type, Output: Error Class, Remote control.
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Example of spray pattern symmetry error

Company Profile



JLI vision a/s develops, designs and manufactures dedicated turnkey vision systems for the international industry.

With more than 27 years of experience, JLI is among the oldest companies in the computer vision field. Our customers include well known international companies. JLI works in many different industries ranging from food processing to material handling, glass, steelworks, pharmaceutical, plastics and packaging.