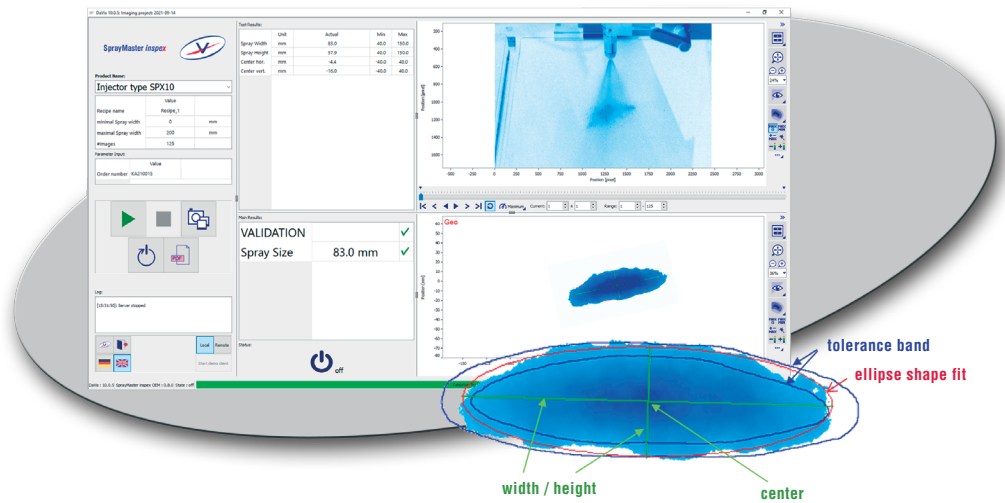**LaVision**

FOCUS ON IMAGING

SprayMaster Q.C. Quality Control Software

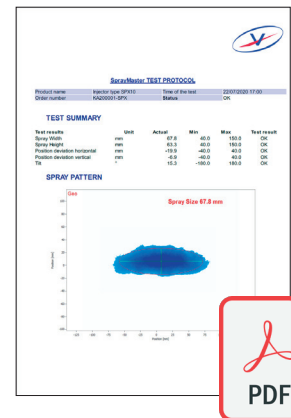Laboratory testing and quality control

LaVision's **SprayMaster Q.C**. (**Quality Control**) **Software** provides real time spray image analysis for quality control and process monitoring. Process relevant spray geometry parameters are extracted from recorded spray images. These are compared to quality acceptance criteria to give instantaneous feedback to the operator or an automated production line.

Algorithmic based spray image processing guarantees fast, repeatable and operator independent results. A comprehensive spray image analysis tool kit is included to meet common spray characterization requirements. Customizable test reports guarantee data traceability. The flexible software design is ideally suited for routine spray characterization, from R&D to quality control applications.

tolerance band
ellipse shape fit
width / height
center

Features

▶ automated image recording and analysis
▶ customized operator and administrator interfaces
▶ recipe-based testing for fast switching between products
▶ centralized recipe management for multiple production lines
▶ spray plume and pattern geometry analysis
  (e.g. angle, size, homogeneity, circularity)
▶ validation against reference patterns and tolerances
▶ customizable export (e.g. tabulated data, spray images)
▶ automatic report generation
▶ machine control via common protocols (e.g. Modbus)

Applications

▶ home care and beauty sprays
▶ automotive sprays (e.g. fuel injectors, SCR sprays)
▶ paint sprays
▶ pharmaceutical sprays
▶ sprays for cooling and drying

Inline & online monitoring

The combination of **SprayMaster Q.C**. (**Quality Control**) **Software** with a **SprayMaster *inspex*** imaging system provides a complete solution for production monitoring of sprays. Hardware and software are optimized for seamless integration into production environment for 24/7 automatic quality control, supporting common communication interfaces, such as Modbus, TCP/IP or 24 V I/O.

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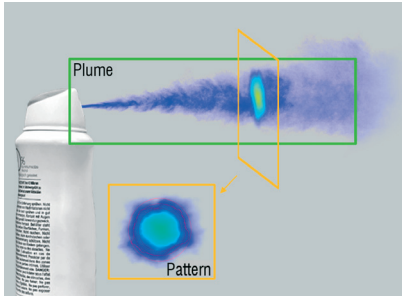Phone: +44-(0)-870-997-6532 / Fax: +44-(0)-870-762-6252

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Quality control software modules

Three different software modules are available to cover all requirements:
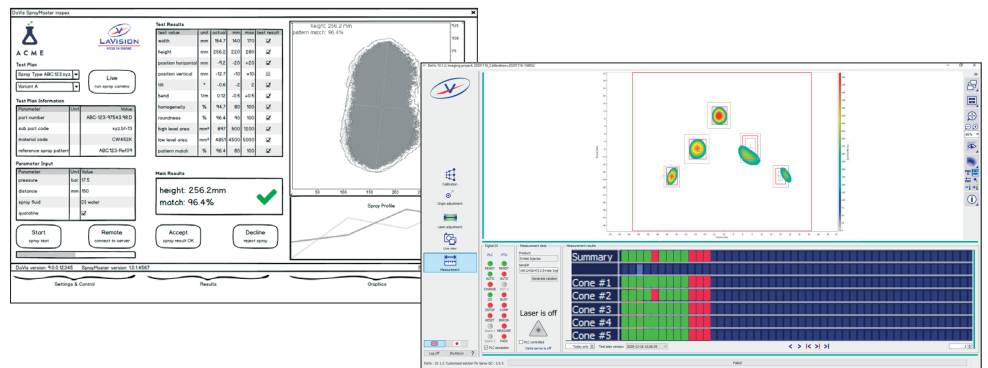
Spray Q.C. software module

integrated solution for common spray applications

▸ including easy-to-use operator and administrator interfaces

▸ spray plume and pattern geometry analysis

    ▸ pattern geometry: contour, center, height, width, rotation

    ▸ plume geometry: cone angle, spray direction

▸ validation against reference patterns and tolerances

▸ data export (e.g. tabulated data, spray images)

▸ automatic report generation

Custom user interface software module

fully customized solution for specific spray applications

▸ including customized user interface

▸ in addition to the feature set of spray Q.C. module:
customized user management, processing, display and export functions

▸ special spray types e.g. multi-cone fuel injectors

Custom remote interface software module

fully customized machine control interface

▸ add-on for spray Q.C. or custom user interface software modules

▸ including customized communication protocol and data transfer (e.g. Modbus, JSON, I/O-lines, TCP/IP)

▸ full remote control operation

▸ SDK including simulation client/server

Modbus

Ordering information

Part number	Description
1105285	Spray Q.C. software module
1105037	Custom user interface software module
1105038	Custom remote interface software module