

BLISTER & PRODUCT INSPECTION



SPECTRA Bulk

Description

The **SPECTRA Bulk QI** Inspection system is developed for the detection of wrong colour, broken products and foreign matter in pharmaceutical products packaged in bulk. For this application, the product inspections **SPECTRA Colour** or **SPECTRA High Resolution** can be used, either as single or multiple camera solution. This solution can operate on all common slat counters. The quality inspection is continuous right through to the rejection station.

For this application, the new **software architecture QI** has been implemented which enables extremely high inspection speeds.



Area of Application

Applicable Objects:

- Tablets
- Oblongs
- Sugar-coated tablets
- Soft and hard gel capsules

Inspection Criteria:

- Colour
- Size
- Broken product
- Foreign matter

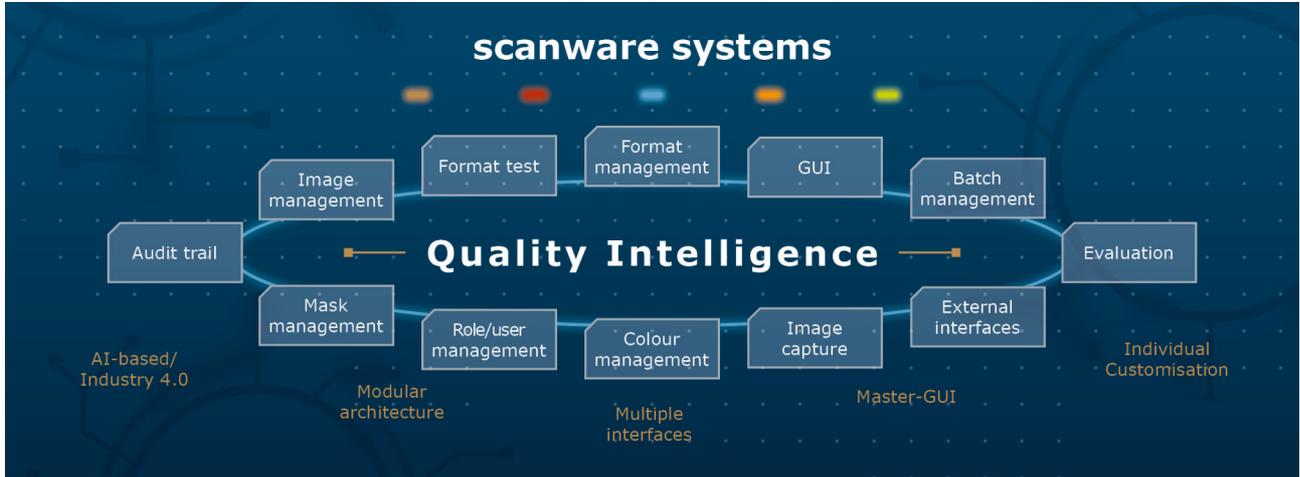


Highlights

- High-speed inspection of up to 1 million products per hour
- Imaging technology optimised for product inspection
- Supported production modes: ejection of individual products, ejection of bottles after filling, and manual removal of bad products
- Systems with multiple cameras for detailed error recognition
- Large machine widths can be inspected
- Can be used on all common slat counters
- Can be used on all ETCs with vibratory conveyors
- Inspection of up to 36 vibration channels
- Detection of cross-contamination, broken product and foreign matter
- Exact position information of faulty products for individual rejection
- Real-time signal transmission for lane-specific results
- Tracing of products allows multiple evaluations per item – ejection of good products due to products jumping lanes is minimised, improving sustainability

■ Software Architecture

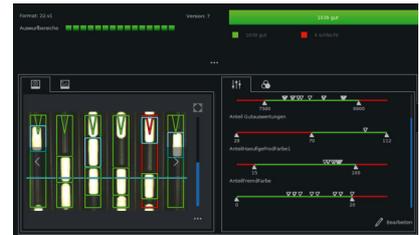
Utilising the new **QI** software platform, **SPECTRA Bulk QI** offers powerful administrative and analytical tools as well as reporting and evaluation and therefore is ready for modern IoT environments.



■ Software

This inspection task guarantees a thorough inspection of every single product within a bulk packaging process. Every single unit is captured multiple times during the process. The position of individual objects can be tracked from one captured image to the next.

The evaluation result of the previous image is transmitted to the current image, so the overall evaluation result contains the information of the previous images. The good and bad results are evaluated by lane, enabling individual ejection.



Depending on machine width, the inspection criteria and transport speed, cameras with appropriate resolutions can be used. All algorithms are tailored to high-speed inspection.

The following functions all occur within a single machine stroke: position analysis of individual products, evaluation according to product parameters, location tracking in consecutive shots as well as overall evaluation result occur and signalling to the machine.

The selection of relevant inspection criteria can be configured and can be set for each project. The following production modes are supported: ejection of individual products, ejection of bottles after filling, and manual removal of bad products.

■ Quality is visible.

- Modular build for a multitude of installation options
- Real-time operating system QNX® for security and speed
- Uniform graphical interface and easy-to-follow menu structure
- Hard- and software are expandable and upgradable
- Fully 21 CFR Part 11 compliant
- Wear-free, electronically controllable scanware W-LED illumination
- Easy to install on all common packaging machinery
- Communication with machine via a VDMXML_P or OPC UA protocol
- Simultaneous use of numerous inspection parameters
- Variety of statistical tools
- Development of special tasks and requirements on your request
- Availability of all parts guaranteed for 10 years
- Service offering solutions and support within 24 hours



Management



Packaging



Blister & Products



Codes, Text & Graphics



Track & Trace



Support



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