BLISTER & PRODUCTS

SPECTRA Japan Quality

Description

The Blister Inspection **SPECTRA Japan Quality** offers highest image resolution for high-speed evaluation and is therefore the system of choice for high requirements such as Japan Quality. The colour system continuously distinguishes 16 million colours even in three-shift operation at high-speed. For Japan Quality Product Inspection, a water-cooling system is employed to keep the cameras at optimum temperature. Offering the same resolution at high speed, this enables the detection of minimal flaws and tiny defects.

Area of application

Applicable objects:
- Tablets
- Oblongs
- Sugar-coated tablets
- Soft and hard gel capsules
- Special shapes
- Sealed products

Inspection criteria:
Smallest defects, such as:
- Polishing errors
- Particles on product or coating
- Surface defects

Furthermore, the following criteria are checked:
- Colour
- Presence
- Size
- Shape
- Position
- Perimeter
- Broken product
- Overfilling
- Consecutive error

Highlights

- Detection of minimal defects such as polishing errors, particles on product or paint
- All blister geometries and combinations of product and packaging material can be recognised
- Suitable for Post-Seal Inspection

■ Japan Quality Requirements

Hard- and software are selected taking the requirements of the Japanese market into consideration. In general, Japanese goods show an extraordinary degree of uniformity and standardisation. Consequently, consumers are very quick to detect any deviation from immaculacy, and to question the correctness of the product. For producers, this establishes the appearance of a product as a quintessential criterion for its usability, equally important as harmlessness and effectiveness.

Under these circumstances, the following attributes are cause for ejection:
- Polishing errors
- Particles on product or coating

Critical errors that are cause for a product recall:
- Contamination with hair
- Contamination with products foreign to the production environment

The system is fully 21 CFR Part 11 compliant, guaranteeing highest security. Utilisation of the real-time operating system QNX® furthermore offers high fail safety with very fast signal transmission.

■ Hardware

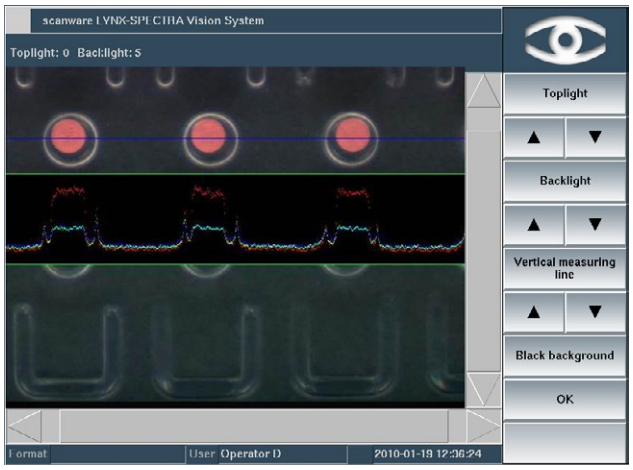
In order to speed up evaluation, the scanware Frame Grabber conducts image pre-processing tasks.
Cascading multiple 3CCD cameras is of paramount importance to achieve the necessary image resolution. The multiplexer developed by scanware assembles the images; evaluation occurs based on a single image.
To make sure that the cameras retain the constant result established during qualification, a water-cooling system is installed.

Software

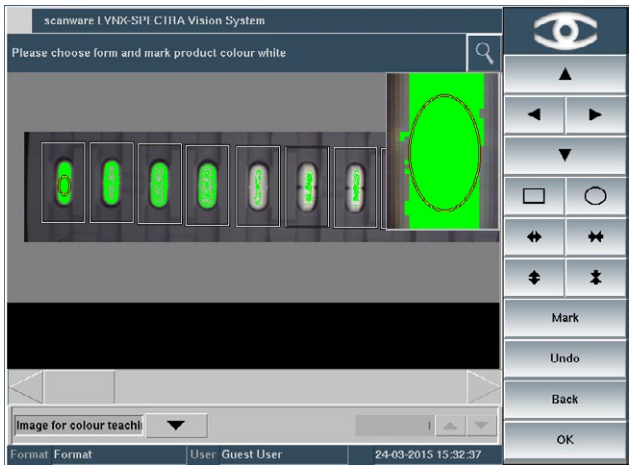
The expert. Highest colour separation with elaborate options.
Thanks to using QNX®, the software runs in real-time. All features can be used simultaneously – at high speed.

Some of our extraordinary software features:

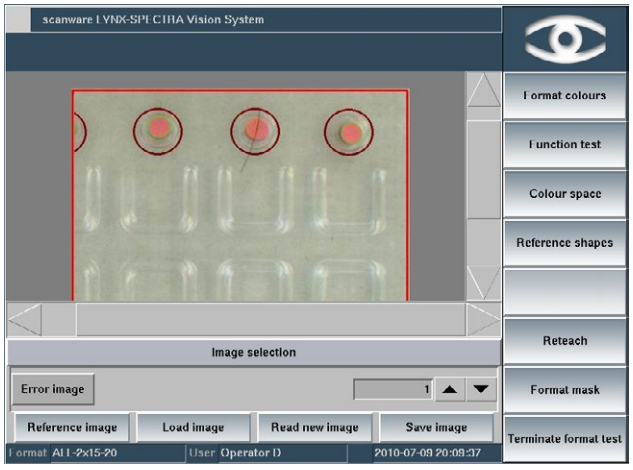
- Production report and format documentation
- Comprehensive Audit Trail
- Uniform graphical interface and easy-to-follow menu structure
- Colour tolerances based on each camera individually



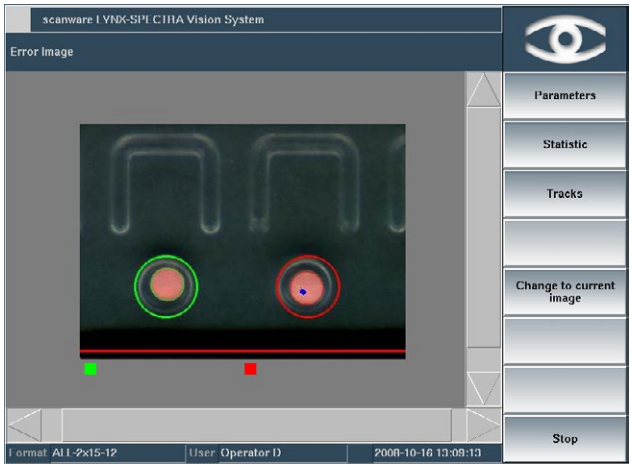
For Japan Quality Product Inspection, even the slightest degree of reflections can be problematic. The measuring line used by scanware enables the setting of safe, reproducible settings for the W-LED illumination. The line can be used vertically, for example if multiple camera images appear one underneath the other.



Camera-specific colour tolerances can have a negative impact on evaluation. The software feature "Colours per Camera" determines that colour values are set for each camera individually during teach-in. This eliminates camera-based irregularities and facilitates precise evaluation. The user, however, teaches on one image.



Presence of hair is detected as a wrong colour and causes ejection. The recognition power depends on inspection area and image resolution.



Products with minimal defects, such as a polishing error or surface defect, are detected by **SPECTRA Japan Quality**.

Further Application Options

Post-Seal Japan Quality Product Inspection
Both inspection from underneath or post-seal are applicable with **SPECTRA Japan Quality**. The illumination is expanded using a side illumination module and colour filters, when applicable. This minimises reflections and enables the detection of the following errors:

- Tablet powder on the bottom of pockets
- Foreign objects on the foil

Technical Data

Camera technology	3CCD, JAI / Sony
Camera interface	Camera Link
Camera resolution	1,024 × 768 to 4,096 × 768 pixels
Colour resolution	16 million colours
Number of cameras	2-6

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
- Fully 21 CFR Part 11 compliant
- Hard- and software are expandable and upgradable
- Wear-free, electronically controllable scanware W-LED illumination
- Easy to install on all common packaging machinery
- Communication with machine via a VDMA-XML 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

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scanware

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