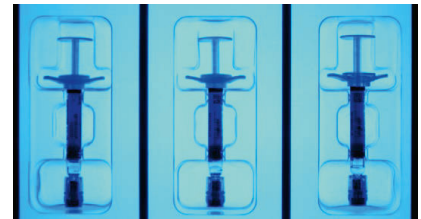


PACKAGING INSPECTION



PATERA Parenterals

Description

PATERA Parenterals IQ inspects pharmaceutical products intended for administration bypassing the intestinal tract, such as ampoules, vials, syringes and carpules. Usually the products are injected. Its purpose is to detect incorrect products and to avoid cross-contamination.

The inspection system **PATERA Parenterals IQ** is part of the newest generation of scanware systems utilising a brand new GUI. Thanks to use of a multi-touch screen, operating it is highly intuitive and the operating concept is created in analogy to artificial intelligence.



Area of Application

Applicable Objects / Inspection Criteria:



Ampoules:

- Number of coloured rings
- Correctness of the ring colours
- Order of the rings
- Presence of label



Vials:

- Presence and colour of the cap
- Presence of label



Syringes:

- Completeness of all components:
 - Needle cap
 - Finger grips
 - Piston
 - Needle as well as presence of label



Carpules:

- Presence and colour of cap
- Presence of label

■ Illumination Regulation

scanware offers standardised designs of illumination units for every application. Toplight, backlight and side light can be combined with each other. The illumination with SMD-W-LEDs offers a long service life with consistent brightness.

Achieving the ideal illumination settings is accomplished using a simple measuring line. Each light unit can be adjusted in 16 steps to create the optimal contrast to the background. Likewise, the desired contrast can be supported by different colour filters. The illumination settings are stored in the format and are therefore always reproducible.



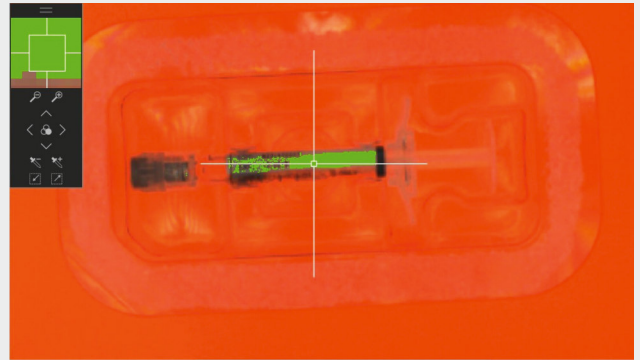
■ System

The newest generation of scanware inspection systems is created with maximum flexibility in mind. Handling via a multi-touch display is highly intuitive and allows gesture recognition. The newly developed user interface can be configured according to application and is very clean.

Teach-in is very effective and therefore enables quick product change-overs. Installation into the packaging line is modular and therefore also highly flexible.

Furthermore, upgrade of hardware and software to cater for changing inspection requirements is possible and makes the system future-proof.

The system is fully compliant with 21 CFR Part 11; format versions are stored separately. During teach-in, the system uses product and error images to automatically suggest parameter limits. This offers higher production safety compared to a user adjusting standard limits manually. Furthermore, operation is nearly effortless.



■ Software

The **PATERA Parenterals QI** system offers a wide range of software features that increase both ease of use and safety.

The user interface is very easy to use and adaptable to the operator's field of application.

The teach-in of formats is guided from start to finish and mask tracking is automatic, minimising time and possible errors. Format tests as well as re-teaching products are no problem with the **PATERA Parenterals QI** software.

The system also includes a remote training tool so that scanware can assist at any time from any location.

Outstanding software functions, such as:

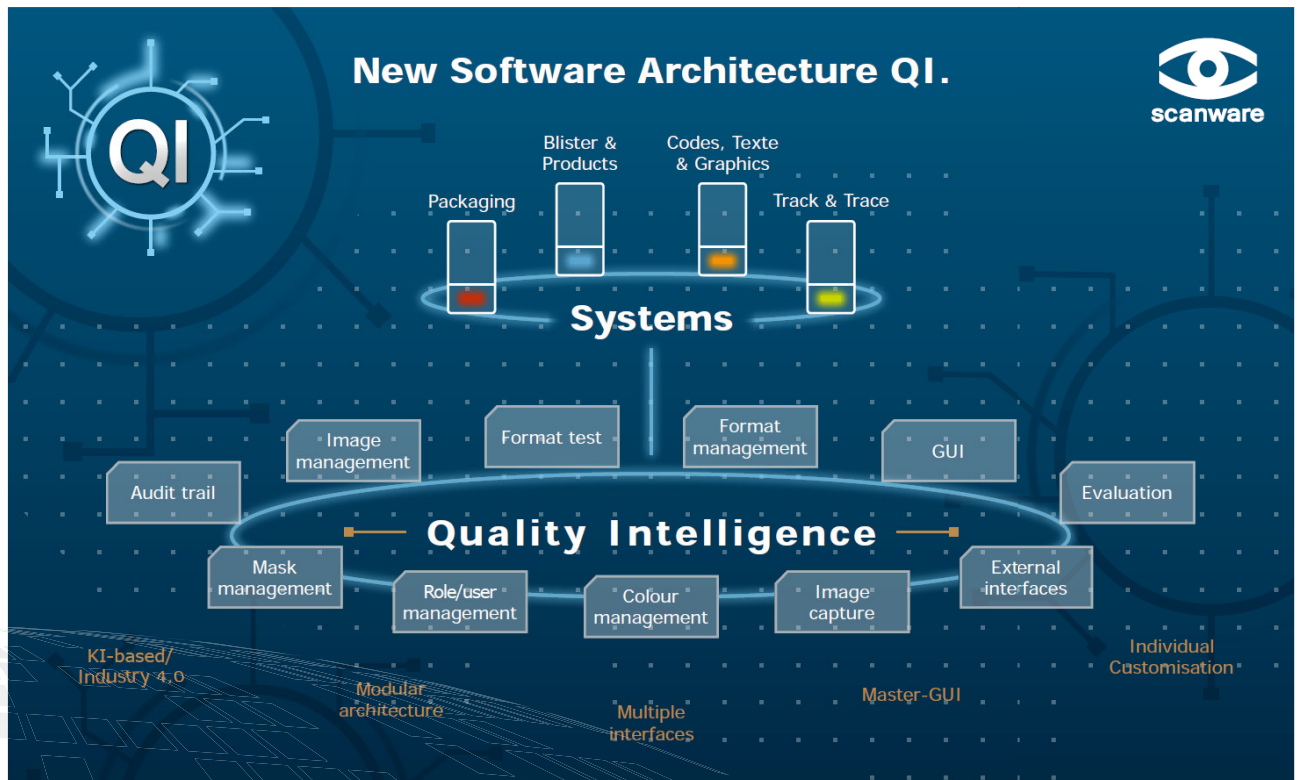
- The multi-touch screen enables operating via common gestures
- All system alerts are displayed in higher level view
- Very efficient teach-in allows a quick start of production
- After installation, the system is ready for immediate use

■ PATERA Parenterals Software Packages

Package	Application content
Parenterals 1 / BW	Presence, size, shape, perimeter, position and measurement of object distances
Parenterals 2 / CL	Presence, colour, size, shape, perimeter, position and measurement of object distances
Parenterals 3 / HR	Presence, colour, size, shape, perimeter, position and measurement of object distances, number of coloured rings, ring colours, sequence of rings

■ Software Architecture

By connecting **PATERA Parenterals QI** to the **Management System IMPERA QI**, which is developed on the basis of the new QI technology, you can use powerful management and evaluation tools.



■ Highlights

- Operation is highly intuitive and offers optimised algorithms for a variety of products
- Inspection using high-end cameras for precise performance
- Extraordinary speed and reliability
- Adjustable and modular for diverse and challenging requirements
- Ideal for unique products and mixed product packaging
- Highly intuitive teach-in enables quick product changeovers on the line
- Adjustable illumination for homogenous and reproducible lighting

■ Technical Data

Camera technology	3CMOS
Camera interface	Camera Link 2.0
Camera resolution	up to 2,464 × 2,056 pixels (depending on chosen hardware)
Evaluation rate (frames per minute)	up to 2,100
Colour resolution	up to 16 million colours (depending on hardware)
Format memory	>1,000
Number of cameras	1–2
Number of different product types per package	variable
Inspection features per product unit	variable



■ 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 VDMA XML_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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