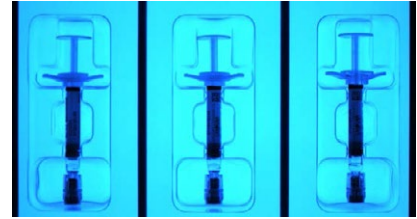


PACKAGING



- **AI-based inspection system**
- **Several different products per blister possible**
- **For parenterals**
- **For quick product changes on the line**
- **New user interface**



PATERA Parenterals

Description

PATERA Parenterals inspects preparations that enter the body bypassing the intestinal tract. The packaging inspection system is more versatile than any other scanware system and was developed with an artificial intelligence-based vision technology.

PATERA Parenterals is implemented on packaging and labelling machines to eject incorrect products and to eliminate foreign products from being mixed in. This system inspects test objects such as ampoules, vials, syringes and carpules for various inspection criteria.



Area of Application

Applicable Objects / Inspection Criteria:



Ampoules:

- Number of coloured rings
- Quality of the ring colours
- Order of the rings
- Label presence



Vials:

- Presence and colour of the cap
- Label presence



Syringes:

- Goodness of needle cap and finger grips.
- Condition of finger grips and piston
- Distance from piston rod to finger grips
- Label presence



Carpules:

- Cap colour presence and quality.
- Label presence

■ Highlights

- Artificial intelligence-based vision technology
- True colour recognition for optimal results
- Outstanding speed and comprehensive analysis options
- The lighting is homogeneous, reproducible and adjustable in 16 brightness levels
- Best hardware and comprehensive software packages based on the QNX® real-time operating system
- Easy teach-in
- Simple subsequent teach-in variants / format tests

■ System

The use of the real-time operating system QNX® enables the fastest signal processing and high reliability.

Safety is increased by further advantages:

The modular design enables expansion to meet future, increasing requirements. This makes the system future-proof.

The system is fully compliant with 21 CFR Part 11; format versions are stored separately. The image memory works with up to 50 images, which can be used to automatically generate an individual system proposal for parameter limits. This offers greater safety and simpler operation than standard limits that can be adjusted by the user.

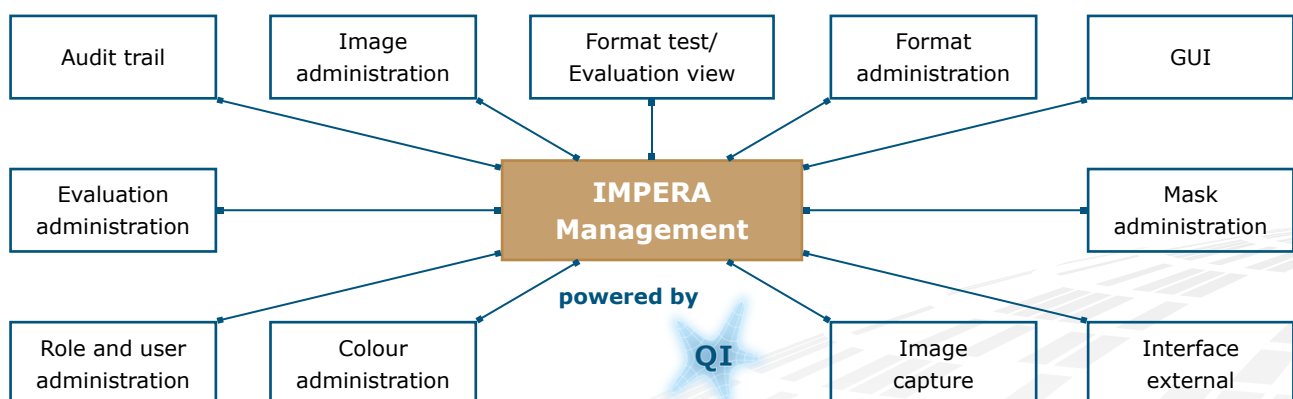


■ PATERA Parenterals Software Packages

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.

■ Softwarearchitecture

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



■ Software

The **PATERA Parenterals** 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 completion and mask tracking is automatic, minimizing time and possible errors. Format tests as well as re-teaching functions are no problem with the **PATERA** software.

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

Outstanding software functions, such as:

- Gesture control
- Can be combined with **IMPERA Management**
- Alert-View (central location for system reports)
- Easy installation during commissioning
- User interface can be adapted to the area of application

■ Hardware

The reflected light unit contains both the scanware reflected light module and the camera/s. It serves as protection for the components installed in it and against ambient light.

The built-in CMOS colour area scan camera with RGB mosaic filter and Camera Link interface enables the low-interference exchange of large amounts of data.

Evaluation unit

Evaluation unit	19 inch built, 42 TE
Industrial PC for frame grabber	Compact PCI Serial
Wide range power supply	95-230 V ~
Standard I/O System	DIO 8/16/48 on Board
Interfaces	2 x COM, 3 x USB, 2 x Ethernet, VGA
Framegrabber	scanware, for matrix and line scan cameras BW and Colour

Illumination

Illumination	scanware, with up to 3,000 LEDs per illumination
Iillumination adjustment	scanware, with 2 x 16 brightness levels
Illuminant	Nichia SMD-W-LED
Illumination types	Top light, Back light, Diffused light



■ Illumination Regulation

scanware offers standardized designs of illumination units for every application. Transmitted, side and incident light can be combined with each other. The illumination with SMD-W LEDs offers a long service life with constant brightness.

The adjustment of the optimal illumination level is done with the help of 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 disks. The illumination settings are stored in the format and are therefore always reproducible.



■ Technical data

Camera technology	3CCD, Sony
Camera interface	Camera Link
Camera resolution	up to 2,464 × 2,056 pixels (depending on the hardware)
Evaluation rate in 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	variabel
Evaluation rate	or tablets e. g. up to 9,600 product units/minute



■ 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



Management



Packaging



Blister & Products



Codes, Text & Graphics



Track & Trace



Support



scanware



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