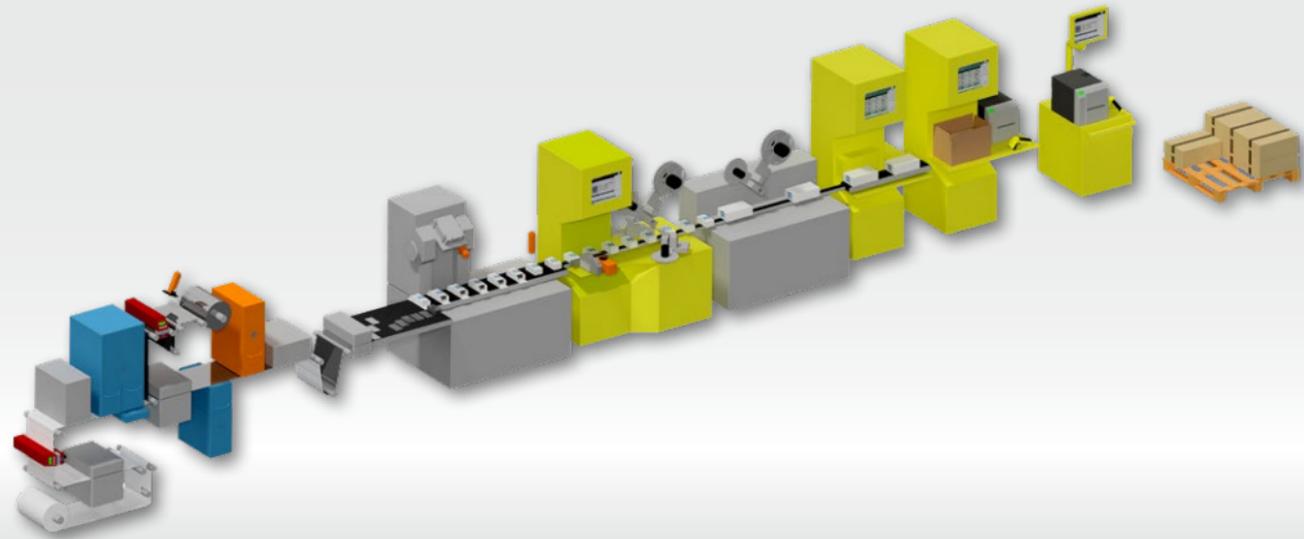




## **Systems Overview**

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**Inspection Systems for Pharma,  
Cosmetics and Food.**



## Welcome

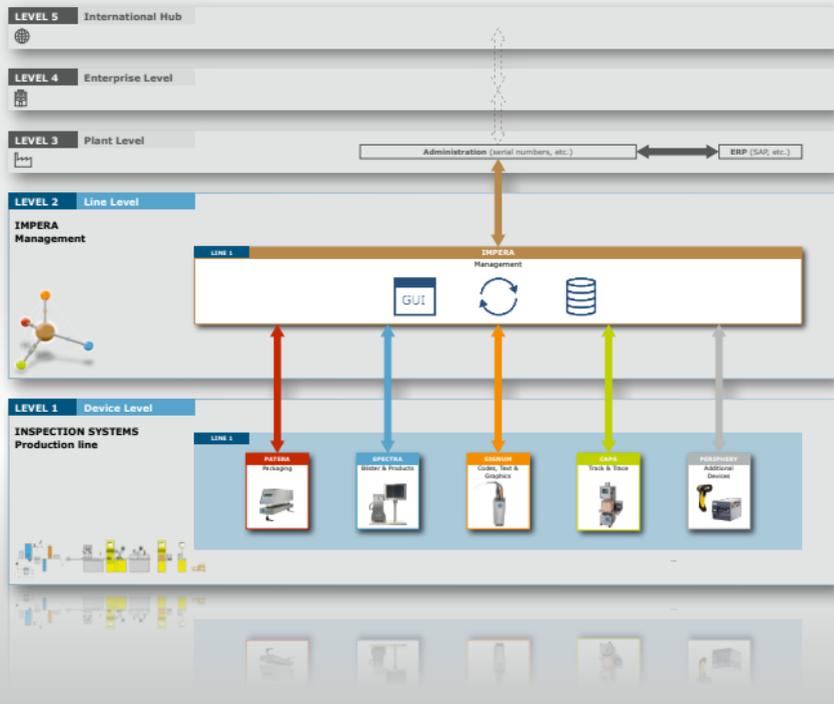
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With over 3,500 installations worldwide and almost 35 years of experience in product and packaging inspection, **scanware electronic GmbH** is a leading supplier of optical inspection systems for the pharmaceutical, cosmetics and food industries. Providing high-quality solutions Made in Germany, we enjoy an excellent reputation both for our systems and innovative development as well as a supportive and reliable integration partner with technical know-how.

As one of the few suppliers on the market able to do so, we equip the packaging process along the entire line with efficient product inspection systems as well as solutions for printing, labelling, tamper evidence sealing and verification. With **IMPERA**, we have a reliable and future-oriented management system in our product portfolio for serialisation and aggregation applications that ensures the traceability of products throughout the complete packaging and supply chain.



# Management



# IMPERA

# Line Management



## Area of Application

- Line Management
- Machine and device control on packaging lines
- Serialisation, aggregation and de-aggregation
- Mark & Verify of folding boxes, displays and shipping boxes

## Level 3 Interfaces

- Advanco
- Arvato
- Atlantic Zeiser
- Hicof
- SAP
- **scanware** EPCIS
- Vimachem SSM
- Werum

## Highlights

- Modular, upgradable and intuitive
- Functionality can be scaled to relevant modules
- Compatible with all **scanware** products
- User interface can be configured to specific preferences
- Easy operation via **scanware's** GUI client
- Combination of decentralised real-time data communication and centralised management of batch data
- Supports common coding standards
- Fulfills customer-specific requirement profiles
- Flexible level 3 interfaces



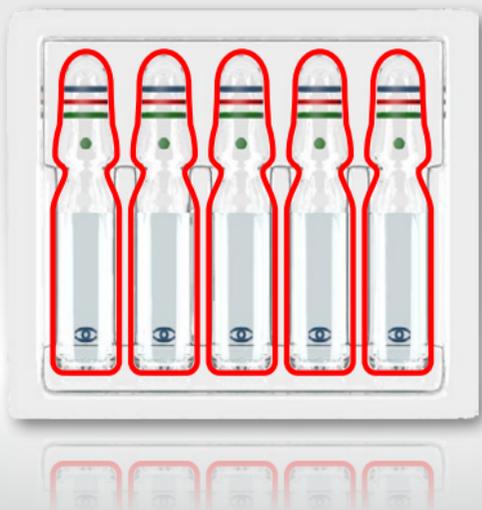
### Area of Application

Detection of pinholes and fissures

- In aluminium bottom foil (formed or plane)
- In aluminium lidding foil

### Highlights

- The system can easily be integrated onto any new or existing blister and sachet machinery
- Large, easily readable touch screen displays current mode of operation and evaluations in the selected language
- The detection sensitivity is adjusted electronically down to 25, 50, 100, 250 and 500  $\mu\text{m}$
- Access control in accordance with GMP regulations prevents unauthorised changing of format parameters
- Thanks to its modular build, **PATERA FOCON Foil** can be provided in foil widths of 200 - 1,600 mm, in steps of 50 mm



### Area of Application

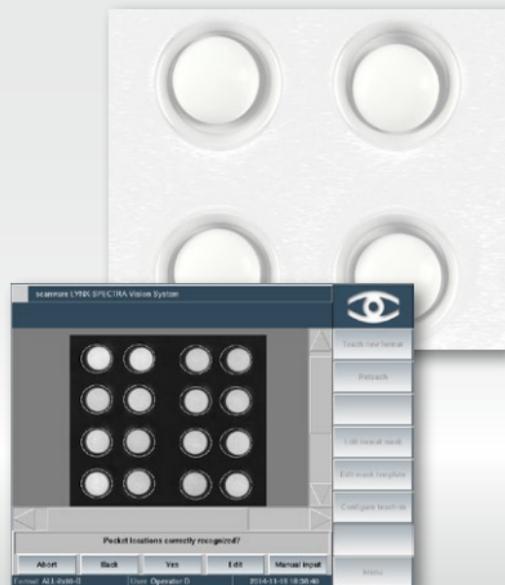
- Syringes:
  - Completeness of all components:
    - Needle cap
    - Finger grips
    - Piston
    - Needle
  - as well as presence of label
- Ampoules:
  - Number of coloured rings
  - Correctness of ring colours
  - Order of rings
  - Presence of label
- Vials:
  - Presence and colour of the cap
  - Presence of label
- Carpoules:
  - Presence and colour of cap
  - Presence of label

### 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



## Blister & Product Inspection



## SPECTRA

## Black & White (BW)



### Area of Application

- Tablets
- Oblongs
- Sugar-coated tablets
- Hard and soft gel capsules

### Inspection Criteria

- Presence
- Size
- Shape
- Perimeter
- Position
- Broken products
- Overfilling
- Surface defects
- Consecutive error

### Highlights

- Magnificent speed
- Multitude of analytical options
- All parameters can be used simultaneously
- Homogenous, reproducible and adjustable illumination – 16 levels available
- Use of QNX® Real-time operating system
- Source for statistical data
- Remote Access via TCP/IP



## Blister & Product Inspection



## SPECTRA Colour (CL)

### Area of Application

- Tablets
- Oblongs
- Sugar-coated tablets
- Hard and soft gel capsules

### Inspection Criteria

- Presence
- Size
- Shape
- Perimeter
- Position
- Broken products
- Overfilling
- Surface defects
- Consecutive error
- Colour

### Highlights

- Like **Black & White**, additionally
- The system can be upgraded to **High Resolution** at any time in case of increasing requirements. That way, specialist requirements can be fulfilled.



## Blister & Product Inspection



## SPECTRA

## High-Resolution (HR)



### Area of Application

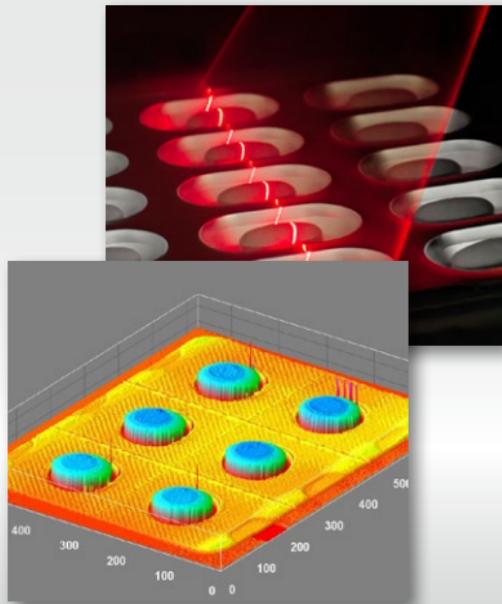
- Tablets
- Oblongs
- Sugar-coated tablets
- Soft and hard gel capsules
- Medical Strips
- Sealed products
- Special shapes
- Dialpacks etc.

### Inspection Criteria

- Presence
- Size
- Shape
- Perimeter
- Position
- Broken products
- Overfilling
- Surface defects
- Consecutive error
- Colour
- Particles
- Print on product

### Highlights

- Like **Colour**, additionally
- All blister geometries and combinations of product and packaging material can be recognised
  - Inspection of various products in same blister possible
  - Applicable for post-seal inspection
  - **Multi-camera systems**



## SPECTRA 3D

### Area of Application

- Tablets
- Oblongs
- Sugar-coated tablets
- Hard and soft gel capsules

### Inspection Criteria

- Presence
- Size
- Broken products
- Overfilling
- Consecutive error
- Geometry
- Volume
- Height

### Highlights

- Pocket forming process
  - Pocket measuring
- Enables safe inspection of:
- Double filling, both stacked and next to each other
  - Broken products next to and underneath the product
  - Capped multi-layered tablets
  - Low-contrast environments such as grey tablet in aluminium blister



### Area of Application

- Various colours in one blister
- Various shapes within the same blister
- Uncommon blister shapes like dialpacks
- Special shapes, i.e. angular tablets with rounded edges, d-shapes or triangles

### Inspection Criteria

- Presence
- Size
- Colour
- Shape
- Perimeter
- Broken product
- Overfilling
- Consecutive error
- Position error

### Highlights

- Inspection of various products and shapes in same blister possible
- Detection of smallest differences in colour and shape
- All blister geometries can be recognised
- Applicable for post-seal inspection
- Utilisation of 3CMOS-cameras for extraordinarily high colour separation
- **Multi-camera systems**



## Blister & Product Inspection



## SPECTRA

## Japan Quality (HR Application)



### Area of Application

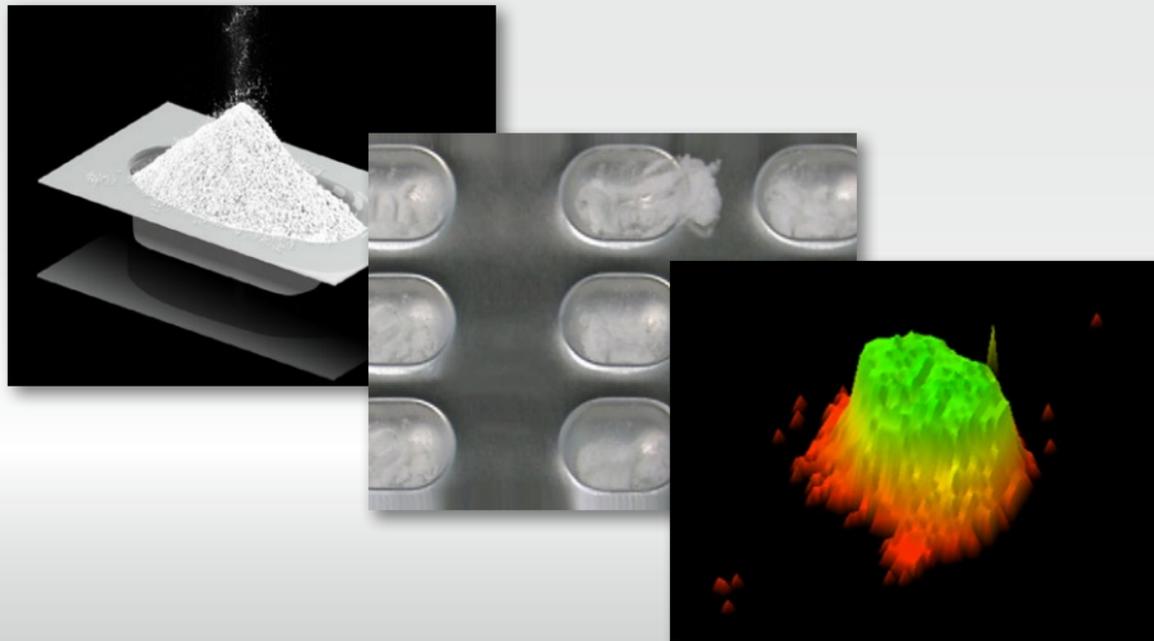
- Tablets
- Oblongs
- Sugar-coated tablets
- Soft and hard gel capsules
- Special shapes
- Sealed products

### Inspection Criteria

- In addition to the criteria of **High Resolution**, smallest defects such as:
- Polishing errors
  - Particles on product or coating
  - Surface defects

### Highlights

- Detection of minimal defects
- All blister geometries and combinations of product and packaging material can be recognised
- Suitable for Post-Seal Inspection
- **Multi-camera systems**
- **Use of water-cooling**



### Area of Application

- Powder in partially filled pockets, for example pellets
- Powder in pockets filled to the brim

### Inspection Criteria

- Presence
- Amount
- Pollution of the sealing area
- Colour and pollution of the powder

### Highlights

- Inspection of minimal dosage with low tolerances
- Detection of pollution in combination with **High Resolution**
- Various construction designs for extra flexibility
- Mask tracking for precise recognition of foil position
- Volume data is saved for analysis of productivity



## Blister & Product Inspection

SPECTRA

Bulk



### Area of Application

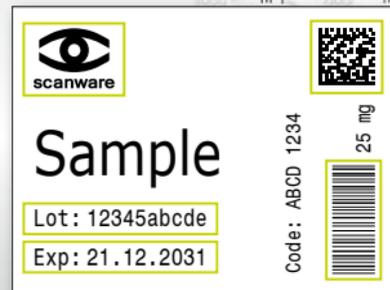
- Tablets
- Oblongs
- Sugar-coated tablets
- Soft and hard gel capsules

### Inspection Criteria

- Colour
- Size
- Broken product
- Perimeter
- Shape

### Highlights

- High-speed inspection of up to 1 million products per hour
- Large machine widths can be inspected
- Can be used on all common slat counters and ETCs with vibratory conveyors
- Detection of cross-contamination, broken product and foreign matter
- Exact position information of faulty products for individual rejection
- **Multi-camera systems**



## SIGNUM

## Print (HR)

### Area of Application

- Small area recognition e. g. blister identification
- In-line single blister printing e. g. Late Stage Customisation
- Large area foil inspection
- Sachet and stick-pack machinery

### Inspection Criteria

- Labels:
- Letters
  - Numbers
  - Graphics i.e.:
    - Company information
    - Product data, logos, pictograms or symbols
    - Barcodes and 2D-Codes, i.e. DataMatrix

### Highlights

- Fast evaluation of data due to smart unicode library
- Automatic recognition of character orientation
- Copy feature for fast teach-in
- Automatic teach-in
- Error analysis in the format test
- Shifting and scaling of inspection areas
- **Multi-camera systems** for inspection of large area prints



## SIGNUM

## Codes (1DC / 2DC)

### Area of Application

- Labels
- Package inserts
- Folding boxes
- Lidding foil
- Tubes
- And others

### Inspection Criteria

- 1D-Codes:
- EAN 8, EAN 13
  - Code 32, Code 39, Code 128
  - Interleaved 2/5
  - DataBar
  - Pharmacode
- 2D-Codes:
- DataMatrix

### Highlights

- Easy, user-friendly, guided teach-in procedure
- Error analysis enables the optimisation of code printing
- High reading speed
- Reads up to 80 DataMatrix- and 150 barcodes per second
- Available in various builds
- All common codes can be decoded
- Format administration
- Display of results of multiple code readers, if installed



## SIGNUM

## Ring Code (CL)



### Area of Application

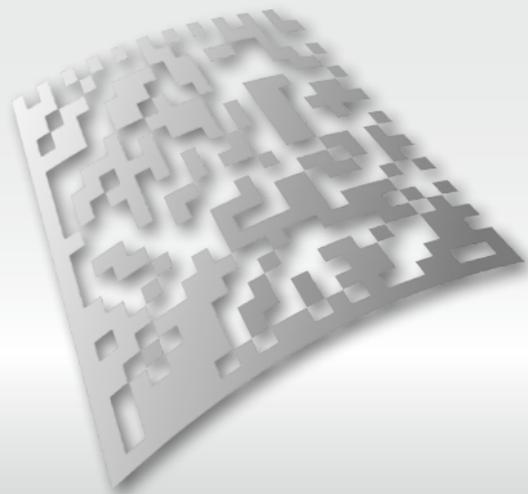
- Ampoules
- Vials
- Inspection of multiple items in blister or tray
- Single product inspection on labelling machines

### Inspection Criteria

- Ampoules: Number of colour rings, ring colours, ring sequence, width, distance between rings, gaps and overall length of all rings
- Vials: Presence and colour of cap
- At the same time, the presence and colour of the label is inspected

### Highlights

- Real colour recognition
- Inspection of ringcode and label in one single step
- Electronically controllable W-LED illumination for reproducible light conditions
- Two illumination levels can be evaluated in immediate succession
- **Multi-camera systems** possible



### Area of Application

- Aluminium tubes
- Plastic tubes

### Inspection Criteria

- Pharmacode
- Miniature Pharmacode
- Printer's marks

### Highlights

- Integration into the newest QI visualisation
- Display of the current reading and a history of the 15 previous results
- Ideal add-on to existing packaging lines
- Extraordinarily high speed and reaction time after the reading
- Tube orientation is flexible and detected by the system
- Distortions of code due to tube shape are incorporated into algorithm



## Track & Trace



## CAPA

## Mark & Verify (MV)



### Area of Application

- Folding boxes

### Inspection Criteria

- 1D and 2D Codes e. g. Code 128 and DataMatrix
- Plain text e. g.
  - Lot
  - Expiry date
  - GTIN
  - Serial numbers
- Print quality

### Highlights

- Precise folding box guidance and ideal use of sensors
- Supports GS1, IFA Coding, CIP 13, ITS, Bollini IPZS, Royal Vignette Belge und China E-Coding
- Constant evaluation results
- Serialisation supported
- Possible as compact add-on solution



Lot: 123456789  
Exp: 21.12.2031



## Track & Trace



## CAPA

## Tamper Evidence (TE)



### Area of Application

- Folding boxes

### Inspection Criteria

- Labels:
- Presence
  - Position

In combination with

#### **CAPA Mark & Verify:**

- Print (1D and 2D codes as well as plain text)

### Highlights

- Applicable for all common closing patterns
- High positioning accuracy
- Change of label roll is possible during ongoing operation
- Supports serialisation





## Track & Trace



## CAPA

## Bundle (BI)



### Area of Application

- Bundle
- Single folding boxes are possible

### Inspection Criteria

- 1D and 2D-Codes
- Completeness

### Highlights

- Different camera positions possible (top, front, rear)
- Supports aggregation

GTIN: 7512345678901  
Lot: 12345abcde  
Exp: 21.12.2031



## Track & Trace



## CAPA

## Case (CI)



### Area of Application

- Folding boxes
- Bundle
- Shipping Cases

### Inspection Criteria

- Readability of 1D and 2D codes e. g. Code 128 and DataMatrix

### Highlights

- Implementation of brush-less motors
- Automatic adjustment of camera and illumination module when adding a layer
- Movable contact edge
- Supports serialisation
- Supports aggregation





## CAPA

## Mobile Base Station (MB)



### Area of Application

- Shipping Cases
- Pallets

### Inspection Criteria

- Labels
  - Presence
- 1D und 2D Codes
  - Content

### Highlights

- Can be used for various requirements
  - Manual aggregation case
  - Manual aggregation pallets
  - Rework
- Up to two printer attachments
- Possible as compact add-on solution





## Track & Trace



## CAPA

## 360° Orbital



### Area of Application

- Plastic bottles

### Inspection Criteria

- 2D codes: Print and coded information
- UV helper codes: Print and reading
- Bottle cap and label: Placement

### Highlights

- High resolution 6 camera system utilising newest technology
- Full serialisation available
- Aggregation in bundling machines or topper loader possible
- Typical Continuous Ink Jet (CIJ) printers for helper code print are integrated
- Maximum speed of 120 bottles per minute
- Code readability maintained as object transportation avoids contact and thereby reduces subsequent scratching
- Equipped with WLED illumination and UV illumination
- Integrated bottle separation which also benefits application in further process
- Full integration into control or switch cabinets
- Crowding at machine entry and exit is circumvented
- Minimal spacing between bottles established by optimal conveyor speed



Description

So that your **scanware** systems run to optimum and you can use all **scanware** advantages, we offer you a service for preventive system maintenance. Our service experts come to you in periodic intervals and issue our seal of quality after successful testing.

Our Service

- Hardware verification, such as
  - Function check
  - Calibration of the display unit
- Software verification, such as
  - Backup of formats, users, etc.
  - Data backup for the customer
- Additional service, such as
  - Tips and brief instructions
  - Security check
  - Information about new features

Your Benefits

- The reliability of your **scanware** systems is increased even further
- The availability of your production facilities increases
- The **scanware** system data is always up to date
- The operating comfort of the systems is optimised
- Maintenance times and costs can be budgeted
- There is an exchange of knowledge between technicians and users
- Your employees are always up to date

For further information:

Website



Brochures



## Quality is visible.

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