

INFORMATION BROCHURE



SYSTEMS Overview

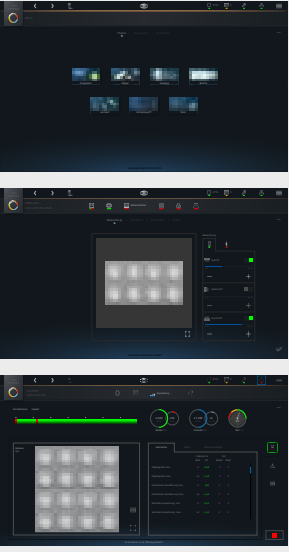
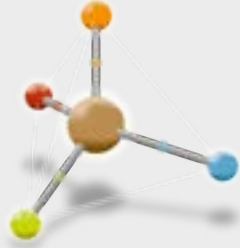
Description

With over 3,000 installations worldwide and 30 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. By developing of high-quality solutions Made in Germany, we enjoy an excellent reputation and support our customers as a reliable integration partner with technical know-how and innovative ideas.

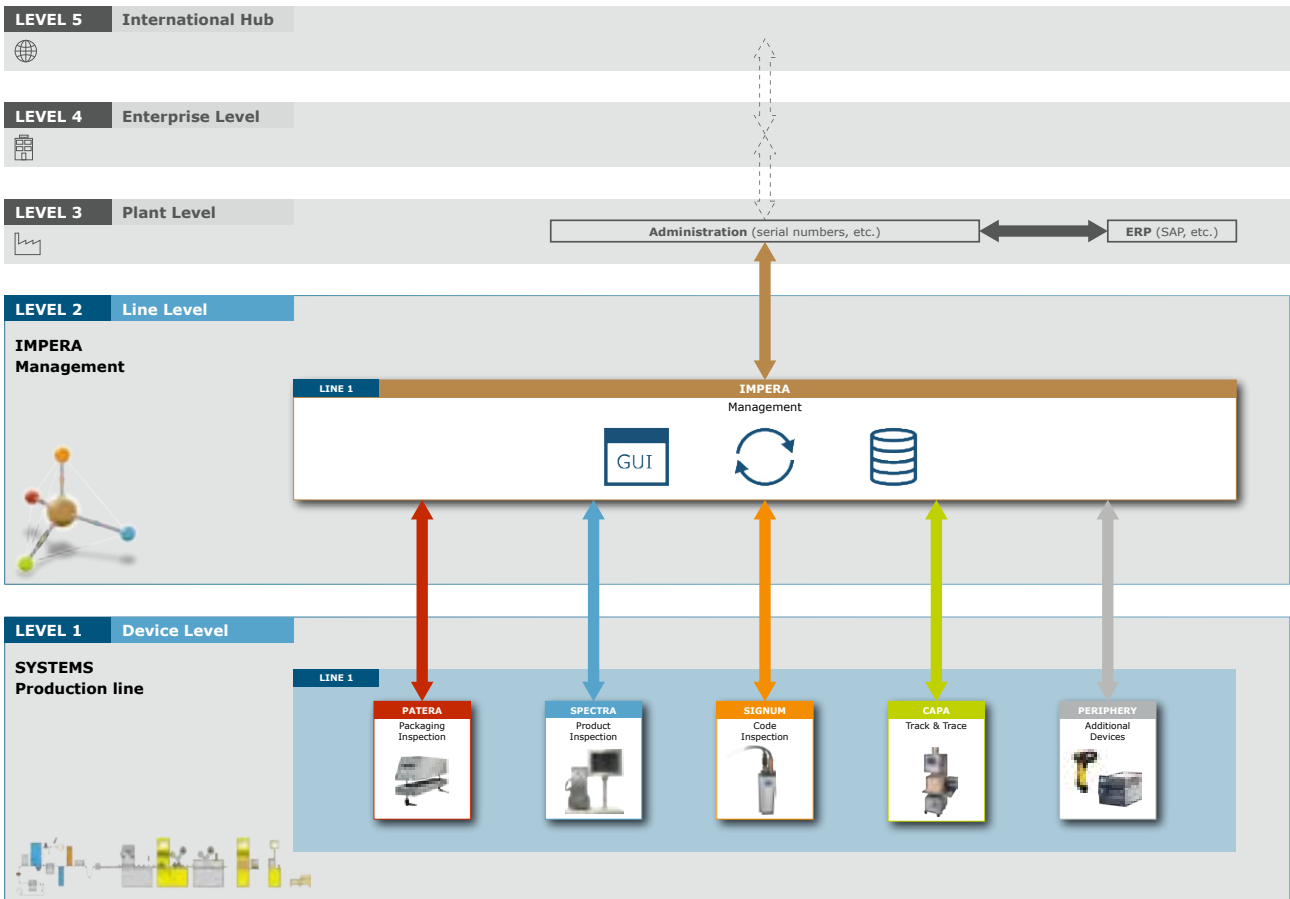
As one of the few suppliers on the market, we equip the packaging process along the entire line and offer efficient inspection systems as well as solutions for printing, labelling, tamper evidence sealing and verification. With IMPERA, we have a process-reliable and future-oriented management system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



IMPERA	Management	SIGNUM	Code Inspection
PATERA	Packaging Inspection	CAPA	Track & Trace
SPECTRA	Product Inspection	CURA	Service and System Check







Software	Area of Application	Highlights	Level 3 Interfaces
<p>GUI</p> 	<ul style="list-style-type: none"> Line Management Machine and device control on packaging lines Serialisation, aggregation and deaggregation Mark & Verify of folding-boxes, displays and shipping boxes 	<ul style="list-style-type: none"> Modular and upgradable Functionality can be reduced to fundamental modules Individually configurable user interface Compatible with all scanware products Easy operation over scanware's GUI client Combination of decentral real-time data communication and centralized management of batch data Supports common code standards Job-related and intuitive graphical interface Fulfilment of customer-specific requirement profiles Flexible level 3 connection Simple and understandable usability 	<ul style="list-style-type: none"> Arvato Atlantic Zeiser Hicof Prosaleks SAP scanware EPCIS Vimachem SSM Werum 

Schematic Diagram





System	Area of Application	Inspection Criteria	Highlights	Example Pictures
<p>SPECTRA BW Black and White Product Inspection</p> 	<ul style="list-style-type: none"> Tablets Oblongs Sugar-coated tablets Hard and soft gel capsules 	<ul style="list-style-type: none"> Presence Size Shape Perimeter Position Broken products Overfilling Surface defects Consecutive error 	<ul style="list-style-type: none"> Magnificent speed Encompassing analytical options All parameters can be used simultaneously Homogenous, reproducible and adjustable illumination – 16 levels available Use of the QNX® real-time operating system 	 
<p>SPECTRA CL Colour Product Inspection</p> 	<ul style="list-style-type: none"> Tablets Oblongs Sugar-coated tablets Hard and soft gel capsules 	<ul style="list-style-type: none"> Presence Size Shape Perimeter Position Broken products Overfilling Surface defects Consecutive error Colour 	<p>Like SPECTRA BW, additional</p> <ul style="list-style-type: none"> The system can be upgraded to SPECTRA HR at any time in case of increasing requirements. That way, specialist requirements can be fulfilled. 	 
<p>SPECTRA HR High-Resolution Colour Product Inspection</p> 	<ul style="list-style-type: none"> Tablets Oblongs Sugar-coated tablets Soft and hard gel capsules Medical Strips Sealed products Special shapes Dialpacks etc. 	<ul style="list-style-type: none"> Presence Size Shape Perimeter Position Broken products Overfilling Surface defects Consecutive error Colour Particles Print on product 	<p>Like SPECTRA CL, additional</p> <ul style="list-style-type: none"> 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 	 
<p>SPECTRA 3D 3D – Product Inspection</p> 	<ul style="list-style-type: none"> Tablets Oblongs Sugar-coated tablets Soft and hard gel capsules Dry powder Aluminium blisters PVC blisters after filling Multi-layered capsules 	<ul style="list-style-type: none"> Presence Size Broken products Overfilling Consecutive error Geometry Volume 	<p>Safe inspection:</p> <ul style="list-style-type: none"> 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 Multi-camera systems 	 


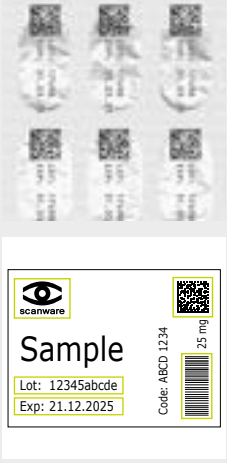

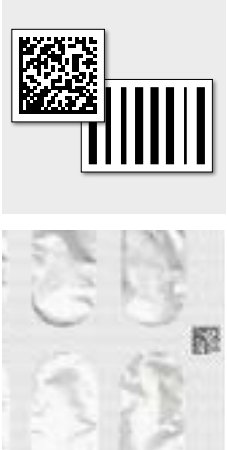




Application	System Usage	Area of Application and Inspection Criteria	Highlights
<p>Contraceptives</p>   	<ul style="list-style-type: none"> • SPECTRA HR with its designated algorithm combination 	<p>Applicable Objects:</p> <ul style="list-style-type: none"> • Various colours in one blister • Various shapes within the same blister • Uncommon blister shapes like dialpacks • Special shapes, i.e. angular tablets with rounded edges, d-shapes or triangles <p>Inspection Criteria:</p> <ul style="list-style-type: none"> • Presence • Size • Colour • Shape • Perimeter • Broken product • Overfilling • Consecutive error 	<ul style="list-style-type: none"> • 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 • Resolutions of 1024 x 768 to 4092 x 768 pixels • Utilisation of 3CCD-cameras for extraordinarily high colour separation • Multi-camera systems
<p>Japan Quality</p>   	<ul style="list-style-type: none"> • SPECTRA HR with water-cooling system 	<p>Applicable Objects:</p> <ul style="list-style-type: none"> • Tablets • Oblongs • Sugar-coated tablets • Soft and hard gel capsules • Special shapes • Sealed products <p>Inspection criteria:</p> <ul style="list-style-type: none"> • Smallest defects, such as: • Polishing errors • Particles on product or coating • Surface defects <p>Furthermore</p> <ul style="list-style-type: none"> • Colour • Presence • Size • Shape • Position • Perimeter • Broken product • Overfilling • Consecutive error 	<ul style="list-style-type: none"> • 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 • Multi-camera systems









Application	System Usage	Area of Application and Inspection Criteria	Highlights
<p>Dry Powder</p> 	<ul style="list-style-type: none"> • SPECTRA 3D • SPECTRA HR 	<p>Applicable Objects:</p> <ul style="list-style-type: none"> • Powder in part-filled pockets, for example pellets • Powder in pockets filled to the rim <p>Inspection criteria:</p> <ul style="list-style-type: none"> • Presence • Amount • Pollution of the sealing area • Colour and pollution of the powder 	<ul style="list-style-type: none"> • Inspection of minimal dosage with low tolerances • Detection of pollution in combination with SPECTRA HR • Various construction designs for extra flexibility • Mask tracking for precise recognition of foil position • Volume data is saved for analysis of productivity • Multi-camera systems
<p>Bulk-Inspection</p> 	<ul style="list-style-type: none"> • SPECTRA CL • SPECTRA HR 	<p>Applicable Objects:</p> <ul style="list-style-type: none"> • Tablets • Oblongs • Sugar-coated tablets • Soft and hard gel capsules <p>Inspection Criteria:</p> <ul style="list-style-type: none"> • Colour • Size • Broken product • Perimeter • Shape 	<ul style="list-style-type: none"> • High-speed inspection of up to 700,000 products per hour • 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 48 vibration channels • Detection of cross-contamination, broken product and foreign matter • Exact position information of faulty products for individual rejection • Multi-camera systems





System	Area of Application	Inspection Criteria	Highlights	Example Pictures
<p>SIGNUM HR Print Inspection (OCR/OCV)</p> 	<ul style="list-style-type: none"> • 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 	<p>Print inspection:</p> <ul style="list-style-type: none"> • Presence • Completeness • Readability • Quality <p>Labels:</p> <ul style="list-style-type: none"> • Letters • Numbers • Graphics i.e.: <ul style="list-style-type: none"> - Company information - Product data, Logos, pictograms or symbols - Barcodes and 2D-Codes, i.e. DataMatrix 	<ul style="list-style-type: none"> • Fast evaluation of data due to smart unicode library • Automatic recognition of character orientation • Copy of Evaluation Type feature for fast teach-in • Automatic teach-in • Error analysis in the format test • Single masks movable • Multi-camera systems for inspection of large area prints 	
<p>SIGNUM 1 DC / 2 DC Code Inspection</p> 	<ul style="list-style-type: none"> • Labels • Package inserts • Folding boxes • Lidding foil • Tubes • And others 	<p>1D-Codes:</p> <ul style="list-style-type: none"> • EAN 8, EAN 13 • Code 32, Code 39, Code 128 • Interleaved 2/5 • DataBar • Pharmacode <p>2D-Codes:</p> <ul style="list-style-type: none"> • DataMatrix 	<ul style="list-style-type: none"> • Easy, userfriendly, 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 all code readers 	
<p>SIGNUM CL Ring Code Inspection</p> 	<ul style="list-style-type: none"> • Ampoules • Vials • Inspection of multiple items in blister or tray • Single product inspection on labelling machines 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	



System	Area of Application	Inspection Criteria	Highlights	Example Pictures
CAPA MV Mark & Verify 	<ul style="list-style-type: none"> Folding boxes 	<ul style="list-style-type: none"> 1D- and 2D-Codes e.g. Code 128 and DataMatrix Plain text e.g. <ul style="list-style-type: none"> Lot Expiry date GTIN Serial numbers Print quality 	<ul style="list-style-type: none"> 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 support Possible as compact add-on solution 	
CAPA TE Tamper Evidence 	<ul style="list-style-type: none"> Folding boxes 	Labels: <ul style="list-style-type: none"> Presence Position Optional: <ul style="list-style-type: none"> Print (1D and 2D codes as well as plain text) 	<ul style="list-style-type: none"> Applicable for all common closing patterns High positioning accuracy Change of label roll is possible during ongoing operation Supports serialisation 	
CAPA BI Bundle Inspection 	<ul style="list-style-type: none"> Bundle single folding boxes are possible 	<ul style="list-style-type: none"> 1D and 2D-Codes Completeness 	<ul style="list-style-type: none"> Different camera positions possible (top, front, rear) Supports aggregation 	
CAPA CI Case Inspection 	<ul style="list-style-type: none"> Folding boxes Bundle Shipper Cases 	<ul style="list-style-type: none"> Readability of 1D and 2D codes e.g. Code 128 and DataMatrix 	<ul style="list-style-type: none"> Implementation of brushless motors Automatic adjustment of camera and illumination module when adding a layer Movable contact edge Supports serialisation Supports aggregation 	
CAPA MB Mobile Base Station 	<ul style="list-style-type: none"> Shipper Cases Pallets 	<ul style="list-style-type: none"> Labels <ul style="list-style-type: none"> Presence 1D- und 2D-Codes <ul style="list-style-type: none"> Content 	<ul style="list-style-type: none"> Can be used for various requirements <ul style="list-style-type: none"> Manual aggregation case Manual Aggregation Pallets Rework Up to two printer attachments Possible as compact add-on solution 	



System	Area of Application	Highlights
<p>PATERA Pore Detection</p> 	<p>Detection of pores and micro fissures</p> <ul style="list-style-type: none"> In aluminium bottom foil (formed or plane) In aluminium lidding foil 	<ul style="list-style-type: none"> Can easily be integrated onto any existing blister machine High detection capacity down to 25, 50, 100, 250 and 500 µm. Internal shift register optional Available in widths of 200 to 1,000 mm Multi-lingual display

Description	Our Service	Your Benefits
<p>So that your scanware systems run optimally and you can use all scanware advantages, we offer you a service for preventive system maintenance. Our service experts come to you at periodic intervals and issue our seal of quality after successful testing.</p> 	<p>Hardware verification, such as</p> <ul style="list-style-type: none"> Function check Calibration of the display unit And much more <p>Software verification, such as</p> <ul style="list-style-type: none"> Backup of formats, users, etc. Data backup for the customer And much more. <p>Additional service, such as</p> <ul style="list-style-type: none"> Tips and brief instructions Security check Information about new features And much more 	<ul style="list-style-type: none"> 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 optimized Maintenance times and costs can be planned There is an exchange of knowledge between technicians and users Your employees are always up to date

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

IMPERA Management

PATERA Packaging Inspection

SPECTRA Product Inspection

SIGNUM Code Inspection

CAPA Track & Trace

CURA Service and System Check

scanware electronic GmbH
Darmstädter Straße 9-11
D-64404 Bickenbach
Telephone +49 6257 9352-0 Fax -22
info@scanware.de
www.scanware.de

International Distributors:
Algeria | Brazil | Canada | China | Costa Rica | Egypt
France | Greece | Italy | Morocco | Puerto Rico | Russia
South Korea | Spain | Switzerland | Tunisia | United
Kingdom | United States

