

BLISTER & PRODUCT INSPECTION



SPECTRA Contraceptives (HR)

Description

Contraceptives pose a distinct challenge to vision systems due to their small size and often, different products, ordered by intake week, are placed in one blister. Utilising **SPECTRA High Resolution** with its designated algorithms enables secure quality control for these products.

For high accuracy even with large foil widths, scanware uses multiple camera systems with 3CMOS cameras. To cancel colour aberrations caused by camera heat, a water-cooling system is installed with the cameras. To outbalance colour disparities due to camera tolerances, the system operates with separate colour informations for each camera. This enables the user to work on a single, rectified image.



Area of Application

Applicable contraceptives:

- 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

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
- Multi-camera solutions for challenging applications
- Applicable for post-seal inspection
- Resolutions of 2, 5 or 12 megapixels
- Utilisation of 3CMOS-cameras for extraordinarily high colour separation

■ Evaluation Examples

Contraceptive with four different tablet types

The system software of **SPECTRA High Resolution** is equipped with improved algorithms for shape recognition. Thus, different products in the same blister as well as products with minimal differences in shape can be safely inspected.



Contraceptive with minimal differences in product colours

The colour separation power of the system enables the detection of minimal colour differences that can hardly be detected by the naked eye. Different colours within one blister can be distinguished securely. No other system can offer this level of security and reliability.



Dialpacks and other special blister geometries

The software is format-independent, so all kinds of blister geometries can be inspected. Also, various combinations of product and foils are applicable.



Ideal Illumination for Post-Seal Inspection

Utilising diffuse light, reflections on the foil are minimised in order to facilitate the inspection of sealed products with outstanding results.



■ 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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