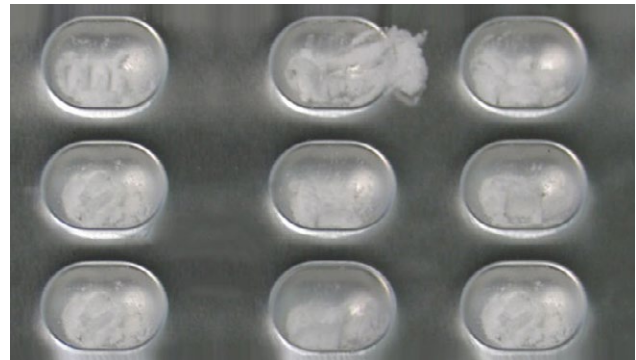


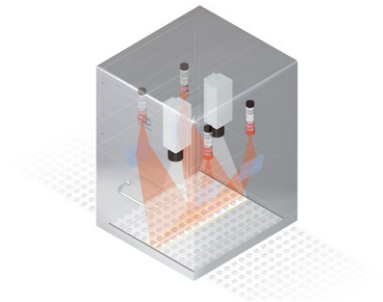
# BLISTER & PRODUCTS



## SPECTRA Dry Powder

### Description

The inspection of dry powder enables product inspection of minimal dosages. Particularly with small amounts, use of checkweighers is insufficient to ensure that the correct amount of active ingredient is present. Using Blister Inspections **SPECTRA 3D** and **SPECTRA High Resolution** results in a topographical colour image of the blister which enables a precise evaluation.



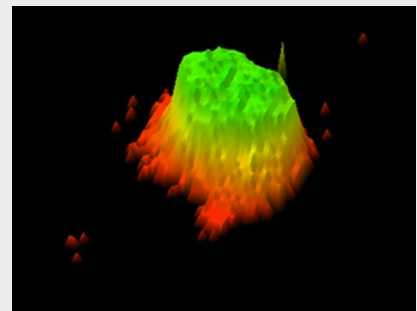
### Area of Application

#### Applicable Objects:

- Powder in part-filled pockets, for example pellets
- Powder in pockets filled to the rim

#### Inspection criteria:

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

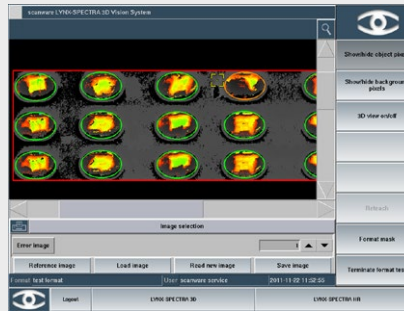


### Highlights

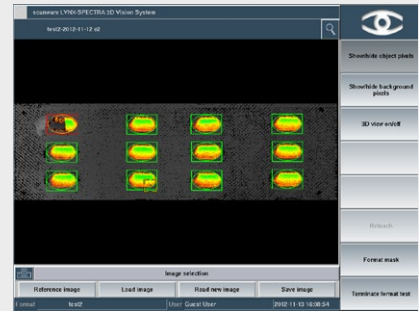
- Inspection of minimal dosage with low tolerances
- Detection of pollution
- Various construction designs for extra flexibility
- Mask tracking for precise recognition of foil position
- Volume data is saved for analysis of productivity

## ■ Software

For the inspection of dry powder, all image information needs to be corrected by the camera angle used in the triangulation process. The software contains a mask tracking feature which safely detects the foil position. Furthermore, the volume data in each pocket is saved for filler analysis at a later time.



Evaluation of a blister filled with powder pellets. The pocket with insufficient powder is detected despite the irregular shapes the powder takes in the pocket.



Evaluation of pockets filled to the rim. Missing powder is detected by the system.

## ■ Technical Data

### Laser technology

- Laser class 1 (Normal operation)
- Wavelength 660 nm
- Fan angle 30°

### Camera

- Line camera
- Sensor size 1,536 × 512 Pixel

SPECTRA	3D	3D Colour
Camera technology	3D camera	3D camera
Camera port	Camera Link	GigE
Camera resolution	1,536 pixels per line	4x1,536 pixels per line
Max. pictures per minute	900	360
Colour resolution	-	256,000
Height resolution	0.1 mm 128 greyscale height	0.1 mm 128 greyscale height
Objects per image	224	224
Format storage	>1,000	>1,000
Number of cameras	1-3	1

## ■ 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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