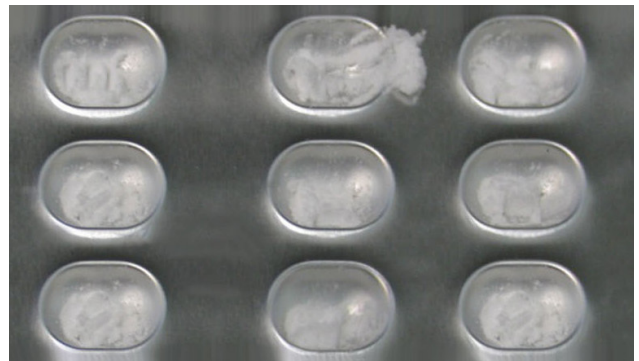


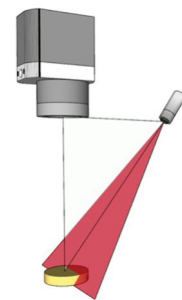
BLISTER & PRODUCT INSPECTION



SPECTRA Dry Powder (3D)

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. Combining product inspections **SPECTRA 3D** and **SPECTRA High Resolution** results in a topographical colour image of the blister which enables a precise evaluation.



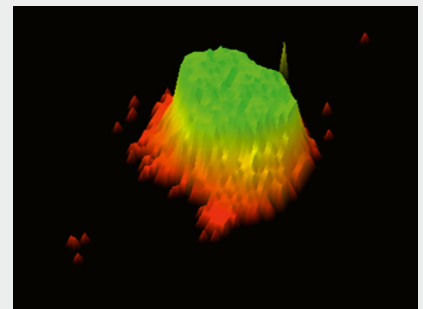
Area of Application

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. Any pocket with insufficient fill of 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		SPECTRA	3D	High Resolution
Laser class	1 (Normal operation)	Camera technology	3D line camera	3× high-speed CMOS cameras
Wavelength	660 nm	Camera port	GigE	Camera Link
Fan angle	30°	Camera resolution	1,536 pixels per line	4x1,536 pixels per line
		Max. pictures per minute	900 (at 1,000 lines)	55 fps
		Colour resolution	not applicable	16 million colours
		Height resolution	0.1 mm 128 greyscale height	not applicable
		Objects per image	224	224
		Format storage	>1,000	>1,000
		Number of cameras	1-3	1-3

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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