

I²V^S

Induction Integrity Verification System

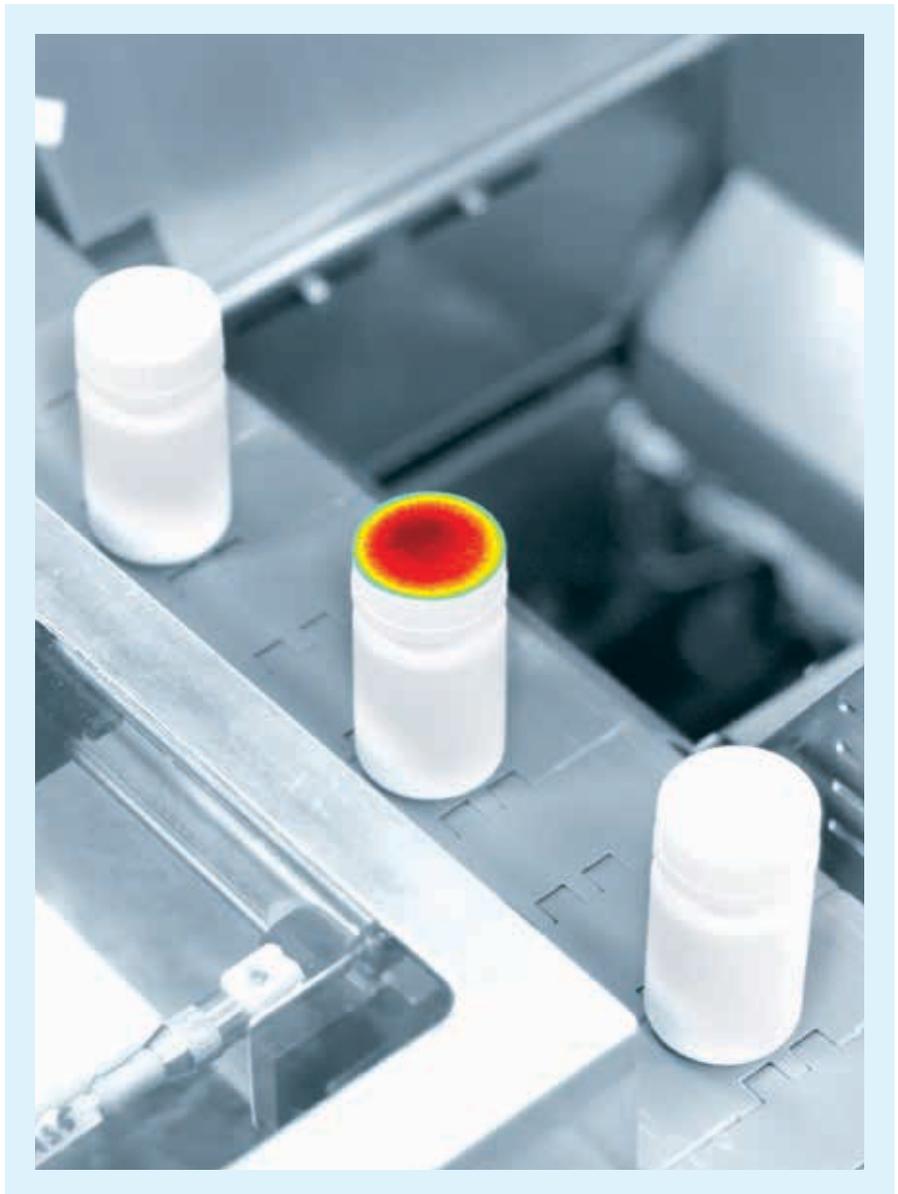


IMAGE IT

DIR Technologies

I²VS

The **Induction Integrity Verification System** (I²VS) is a system aimed to detect failures at real time in the induction cap sealing process of HDPE bottles, that result in a defective aluminum foil innerseal.

The integrity of the seal is verified by means of thermal imaging and propriety image processing algorithms. Following the detection and the identification, the defective bottles are removed from the production line. Moreover, the I²VS can monitor the induction process itself, and verify that the process works constantly inside the correct process window.

The operation of the I²VS is done through a touch screen that is very intuitive and straightforward. The system generates a report specifying the number of bottles rejected, the time and the reasons for the rejections. The modular design of the I²VS makes it simple to integrate into any existing line.

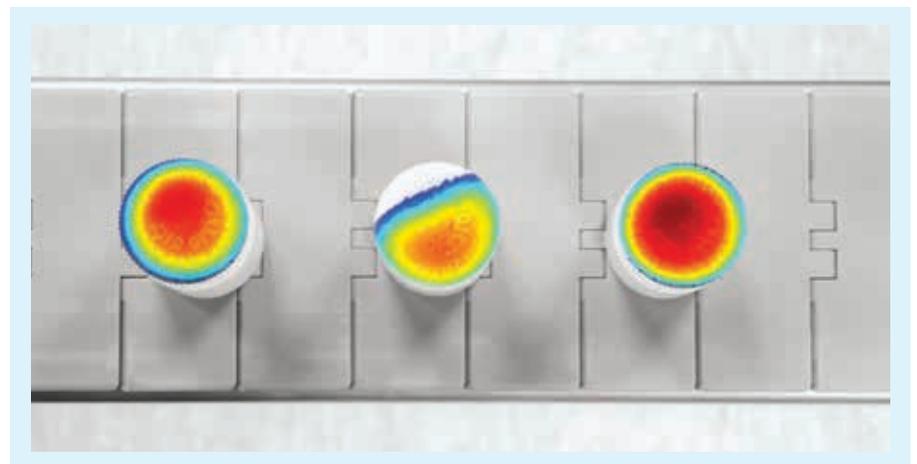


IMAGE IT

The I²VS will identify and remove bottles suffering from the most common induction problems, such as the examples below



Bent Foil



Missing Foil



Underheating (cold soldering)



Overheating



Crooked Cap



Lay down or upside down bottle



- The system can measure most bottle and cap sizes and types. Transition between bottle types is done by simply choosing the right bottle on the menu on the touch screen.
- All external parts of the system are made of Stainless Steel or Anodized Aluminum. The IR camera is sealed against dust and water splash (IP65 compliant).
- System On and Off (power supply to system components) are controlled by a main system switch. Operation Enable/Disable is controlled from the touch screen.
- A Red-Green warning provides system status (working/halt)
- 21-CFR-11 Compliant

About (DIR)

DIR Technologies utilizes sophisticated **infra-red detectors** and **thermal imaging** technology combined with **high throughput imaging & analysis** software, to provide innovative solutions for the **quality control and process monitoring** of pharmaceutical manufacturing and packaging processes



Advantages of DIR's technology

- Nondestructive, noninterfering
- In-line, Real-Time, 100% testing
- Very small foot-print, adaptable to any existing production line
- Can be customized to a wide variety of packaging processes
- No slowdown of production

Contact us for additional Information

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