

## First 100%, in-line heat sealing inspection system

### What is it?

The DIR Eye is the first 100% in-line inspection system for heat sealed packages that is non-intrusive and does not result in production slowdown.

A quantum leap from sampling to monitoring every single package - the system's real time analysis provides insight in to the quality of the sealing process, enabling operators to detect and immediately amend issues should they occur.

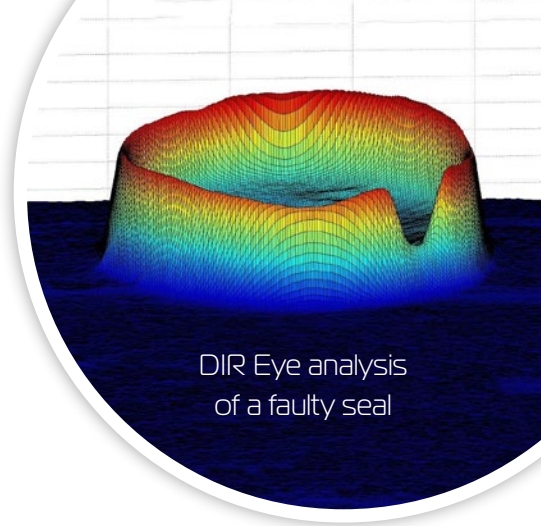
### How does it work?

The DIR Eye combines thermal imaging technology with sophisticated analysis algorithms to provide real time integrity monitoring of every single package or container on the packaging line – at the speed of the machine throughput.

Inspection is "hands off", non-invasive and non-destructive. Nothing is projected at the product; the DIR Eye reads and analyzes the inherent heat signature of the seal (which is amplified directly after the sealing process).

The DIR Eye is compatible with different package sizes and types and can be easily integrated in to almost any packaging line.





## Why do I need the DIR Eye?

- ◆ **Ultimate quality assurance** of heat sealed packages – **100% inspection**
- ◆ **Unprecedented process control** – Discover and fix potential problems in real time
- ◆ **Fast** – No slow-down of the packaging line
- ◆ **Non-interfering, non-degrading inspection** – “hands off” inspection
- ◆ **Designed for simplicity** – the DIR Eye is small and integrates seamlessly with the existing packaging process
- ◆ **Easy GUI**, simple user interface
- ◆ **Reduce customer complaints**
- ◆ **ROI** – Cuts costs inherent in sampling methods, minimizes waste (time, work-backs, materials and labor)
- ◆ Reports enable **statistical process control** of the sealing process over time
- ◆ **Brand integrity** – Assurance that brand standards are upheld on the packaging line



DIR Technologies is the developer and provider of first-in-industry thermography-based inspection solutions for pharmaceutical primary packaging quality assurance and process control. DIR solutions offer a quantum leap from commonly used methods of sampling by providing 100% in-line, non-intrusive inspection that does not result in production slowdown. DIR Technologies is leading the way in the use of thermal imaging in the pharmaceutical industry for PAT applications and has filed several patents on the subject.

DIR Technologies is currently in the process of expanding the company's product portfolio to include quality assurance and process control solutions for non-pharmaceutical packagers.

The company was established in 2009 and is jointly owned by major Israeli defense companies Rafael Advanced Defense Systems, LTD ([www.rafael.co.il](http://www.rafael.co.il)) and Elbit Systems ([www.elbitsystems.com](http://www.elbitsystems.com)), and Israeli-American fund SCP Vitalife ([www.scpvitalife.com](http://www.scpvitalife.com)). DIR Technologies is a spin-off of SCD – SemiConductor Devices ([www.scd.co.il](http://www.scd.co.il)), one of the largest manufacturers of advanced Infrared sensors worldwide.

DIR Technologies is located in Haifa, Israel.

