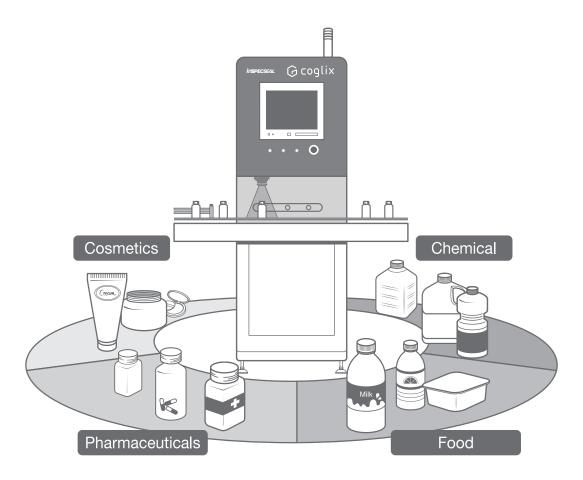


REASONS WHY YOU SHOULD CONSIDER *inspecseal*

- 1. Most advanced container seal inspection technology by means of Cooled Thermal Imaging Camera through the closed cap
- 2. Sealing quality analysis and classification algorithm
- 3. Without slowing down the packaging line or affecting the product quality
- 4. Added to or integrated with the current productions



Common types of defects



Using **inspecseal** technology, a thermal imaging scan analysis of the seal area detecting above listed defects, under or overheated seals, incomplete and missing seals immediately after the package has been sealed.

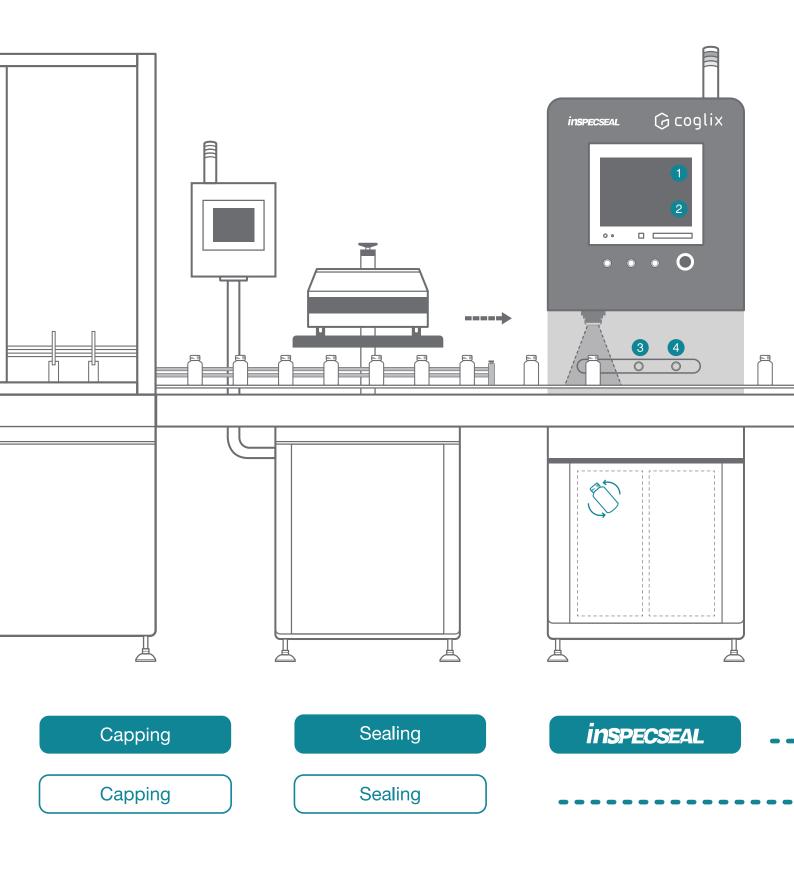


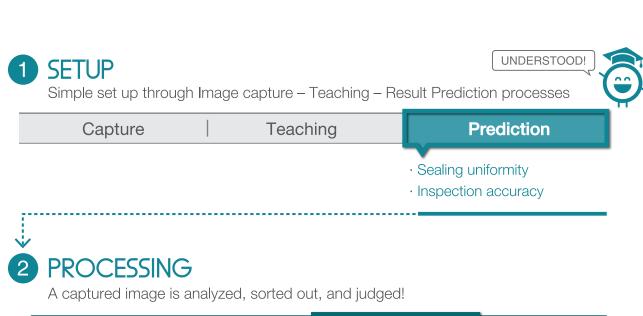
• Increased market demand with regard to seal inspection

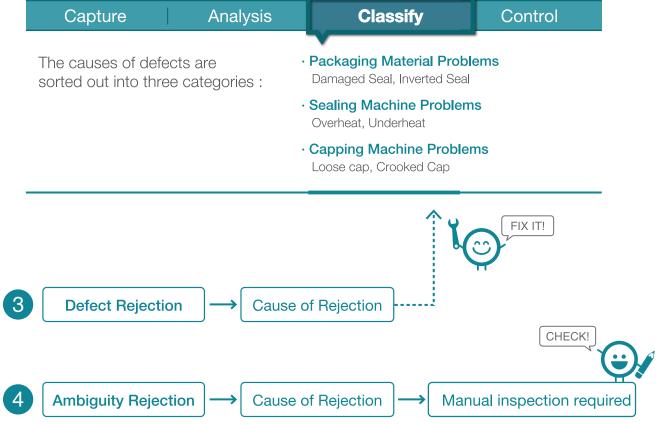
- 1. Health regulatory authorities ask to inspect the seal integrity of induction sealed caps in order to protect the product from contamination.
- 2. Manufacturers need to prove that there is no leakage in sealed containers/packages.
- 3. Customers would not trust the quality of a brand if they find a defective seal.

UNDERSTANDING THE **INSPECSEAL**

Inspecseal means defects can be addressed and corrected immediately, which significantly reduces the quantity of defective packages produced.







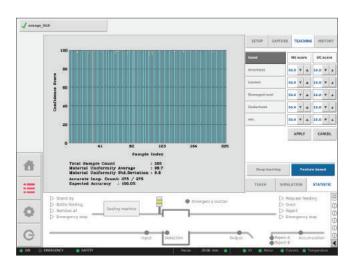
Quality-Controlled Result : Our Suggestion!



Unexpected Result : Conventional way...

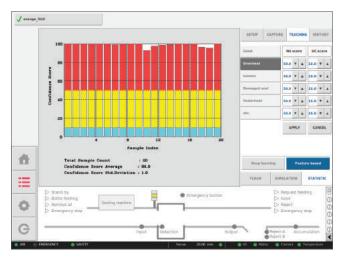


• PREDICTION



Sealing uniformity prediction

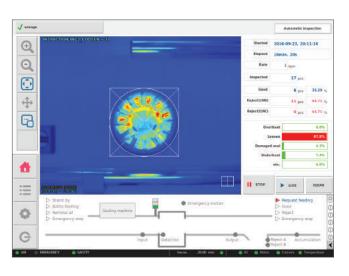
- · Sealing quality analysis
- · Expected inspection accuracy



Sealing defects characteristics prediction

- Types of defect characteristics are analyzed and predicted for each sample
- Detection range of defect and ambiguity rejection can be adjusted to optimize the expected accuracy

• CLASSIFICATION



Defects classification

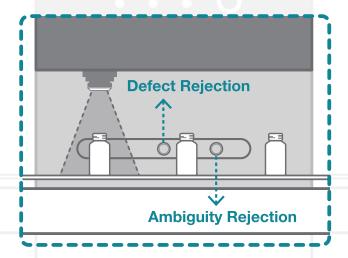
- Quality defects found during quality analysis are classified according to the causes
- · Types of defects are displayed on the screen
- Additional defect classifications can be created upon request depending on different characteristics of a defect not identified by the list

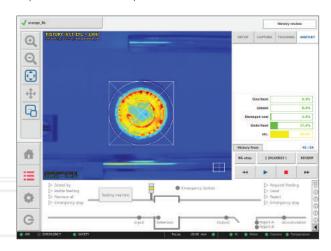


• 2 - WAY REJECTION

- 1. Reject by confidence scores
- 2. Reject due to ambiguity

Rejection due to ambiguity of the seal quality which requires manual inspection





US Patent Appl. No. 15/306,337 US Patent Appl. No. 15/306,486 PCT Patent Appl. No. PCT / KR2016/011737 PCT Patent Appl. No. PCT / KR2016/011738

• APPLICABLE CONTAINERS AND CAPS

	Containers		Сар
Material	HDPE, Glass bottles		HDPE CRC (Child Resistant Cap) PP
Size	Diameter	20-200mm	20-200mm
	Height	50-300mm	10-50mm

· Note: Other size containers and closures may be applicable. Contact us for more information

• SPECIFICATIONS

IPC	Intel Core i7 2.6GHz/4G RAM/1TB SSD
Dimension	850 (length) x 600 (width) x 2100 (height) mm
Weight	150kg
Electricity	220Vac/110Vac, 5A
Compressed air	5kg/cm ²





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