BINARIAL®

ULTRASONIC SENSOR

Accurate and non-invasive real-time detection of defects in packaging

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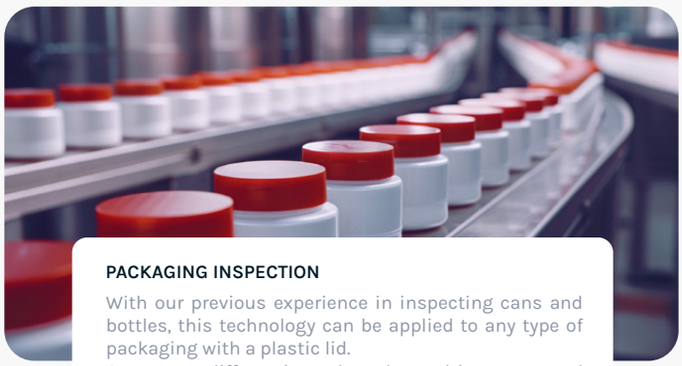
What does Binarial's ULTRASONIC SENSOR do?

CANNED GOODS INSPECTION

In the canning sector, we apply our technology to ensure the proper sealing of cans, hence preventing problems for consumers and clients.

BOTTLE INSPECTION

The flexibility of our ultrasonic analysis technology allows us to study plastic bottles to ensure their robust manufacturing and prevent liquid loss when filled.



PACKAGING INSPECTION

With our previous experience in inspecting cans and bottles, this technology can be applied to any type of packaging with a plastic lid.
Our AI can differentiate when the seal is correct and identify the type of defect.

SEAL INSPECTION IN AEROSPACE AND AUTOMOTIVE INDUSTRIES

The multiple configurations we can perform with our technology allow us to adapt and apply it to various sectors where sound is a relevant factor.

An innovative, precise, and effective system

Our sensor combines ultrasound with vibrational data capture from packaging, then processes this data with Artificial Intelligence technologies to allow precise, effective, and non-invasive detection of products.

PRECISE AND NON-INVASIVE DETECTION

Identifies anomalies without physical contact.

AI-BASED

Analyzes vibrational modes for effective and precise detection.

DETECTION OF NON-VISIBLE DEFECTS

Identifies imperfections that are completely undetectable by visual inspection.

RETRAINABLE AND ADAPTABLE SYSTEM

Allows continuous adjustments and improvements to adapt to new packaging types or changes in the production process.

ELIMINATES DEFECTIVE PACKAGING

Prevents economic losses and maintains product quality.

ctrlX AUTOMATION

CTRL-X and Siemens XCelerator Patents

The importance of this technology is highlighted by our incorporation as a featured application on the CtrlX and Siemens Xcelerator platforms for international spreading and use.