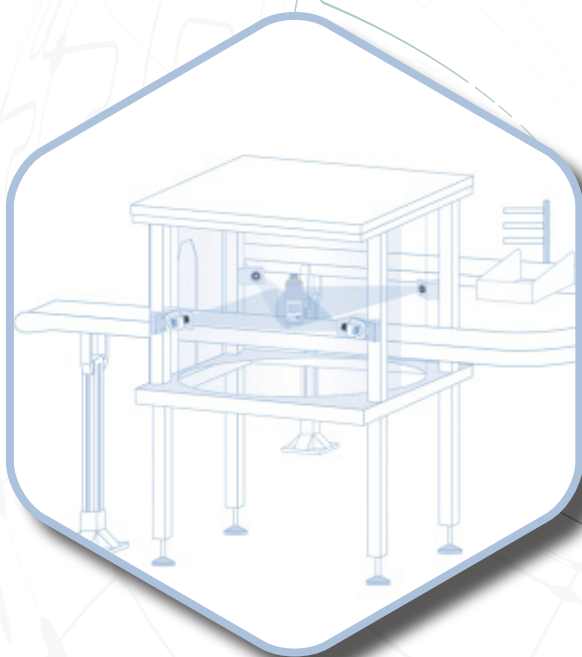**AIS** PRINT-APPLY-INSPECT
Part of AIS GROUP

What is AIS Rev 360?

AIS Rev 360 is a quality control equipment using **Deep Learning** to inspect surfaces on containers without the need for orientation.
This system uses 4 side cameras to analyze and determine the quality of the product's finish thanks to **image deployment**.
It is **compatible with any type of round container:** glass bottles, canning jars, metal containers, PET containers, vials, etc.

What does AIS Rev 360 do?

The AIS Rev 360 solution accurately and efficiently detects any defects in **labels, sleeves, caps, and other essential elements,** ensuring **100% inspection of production.**
Defective products are automatically expelled, and **production data** is stored to facilitate further analysis.
This guarantees a controlled product **without the need to stop the production** and with a **simplified parameterization of the formats.**

Training and Modules

AIS Rev 360 incorporates **pre-trained neural networks** to allow defect detection from the first minute. Our technology thus facilitates the learning process for **detecting anomalies and objects.**

The Deep Learning Rosepetal software is a proprietary development of AIS Vision Systems, featuring unlimited format storage capacity, web and remote access for monitoring production results.

Image Capture

Precise inspection with high-quality images:

- **Uniform lighting** for the entire contour of the product.
- High-resolution color cameras starting from 5 Megapixels.
- High speed (4-5 containers/second).
- **Capture system with 4 side images** of each product to ensure a comprehensive inspection. **Option available with top view.**

Electrical Panel and Mechanical Design

Advanced inspection technology with:

- **Rosepetal controller** for real-time neural network processing.
- Lighting with a strobe controller and proprietary electronic design.
- FPGA with a patented microcontroller that allows precise synchronization with other elements of the line and **easy adaptation to existing production lines.**
- Adjustable camera mounts with precision regulation system.
- **Bright beacon and touch control panel** for easy viewing of the equipment's status and its results..
- **Robust stainless steel structure** in the form of a compact tunnel that facilitates installation in any production line. **It does not require mechanical modifications** in the production line and allows the system to be isolated from external light sources.
- **Customizable rejection system.** For example: through an impact ejector or progressive using fingers.

360° Quality Control

Comprehensive inspection system that includes labels, sleeves, screen printing, or any other decoration on bottles:

Raised label

Double labeling: Presence / Absence of label

Inverted label

Label integrity (Logos, alcohol content, volume, etc).

Stains, tears, wrinkles, and folds

Position and tilt of the cork/capsule.

Label position and tilt.

Relative position between different labels.

Defects in lithography.

Barcode reading.

OCR marking.

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