SAMSARA MACHINE VISION FOR

Food & Beverage

The Leading Platform for Connected Operations

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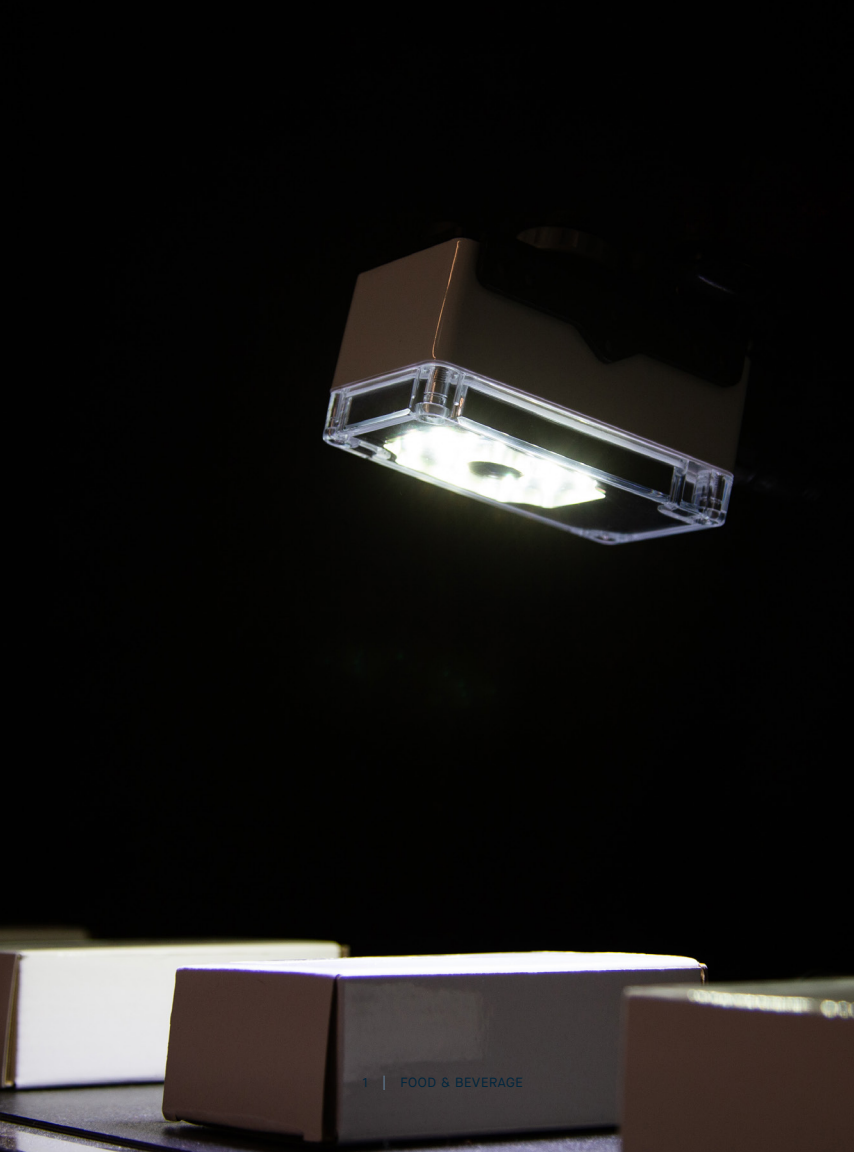# A Complete Machine Vision Platform for Food & Beverage

With a growing need for allergen-free products, greater SKU proliferation, and increasing scrutiny from consumers and regulators, food and beverage manufacturers are under increasing pressure to minimize downtime without compromising on quality.

While machine vision systems can help solve key production and quality challenges for food & beverage manufacturers, they have historically been difficult to use and maintain. Samsara's VS2-series simplifies the machine vision experience by combining powerful hardware with a truly intuitive user interface. Coupled with an integrated traceability database and an array of flexible inspection tools, the VS2-series offers a complete solution for automated product inspection in the food and beverage space.
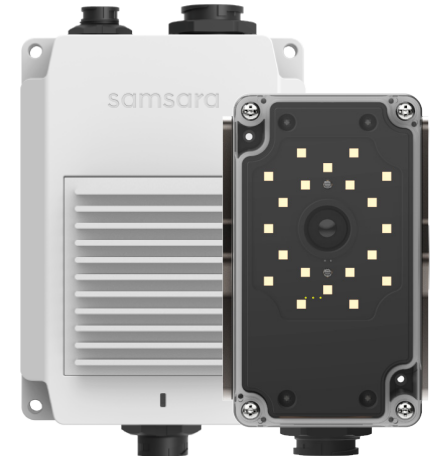
QUALITY MANAGEMENT

Reliable inspection of every produced component improves product quality, even as production rates and line speeds increase.

OPERATIONAL EFFICIENCY

Real-time defect alerts and integration with automated systems help catch defects sooner, reducing rework and scrap costs.

BUILT-IN COMPLIANCE

Out-of-the box traceability reporting means inspection results are automatically collected making it easy to maintain records for compliance.
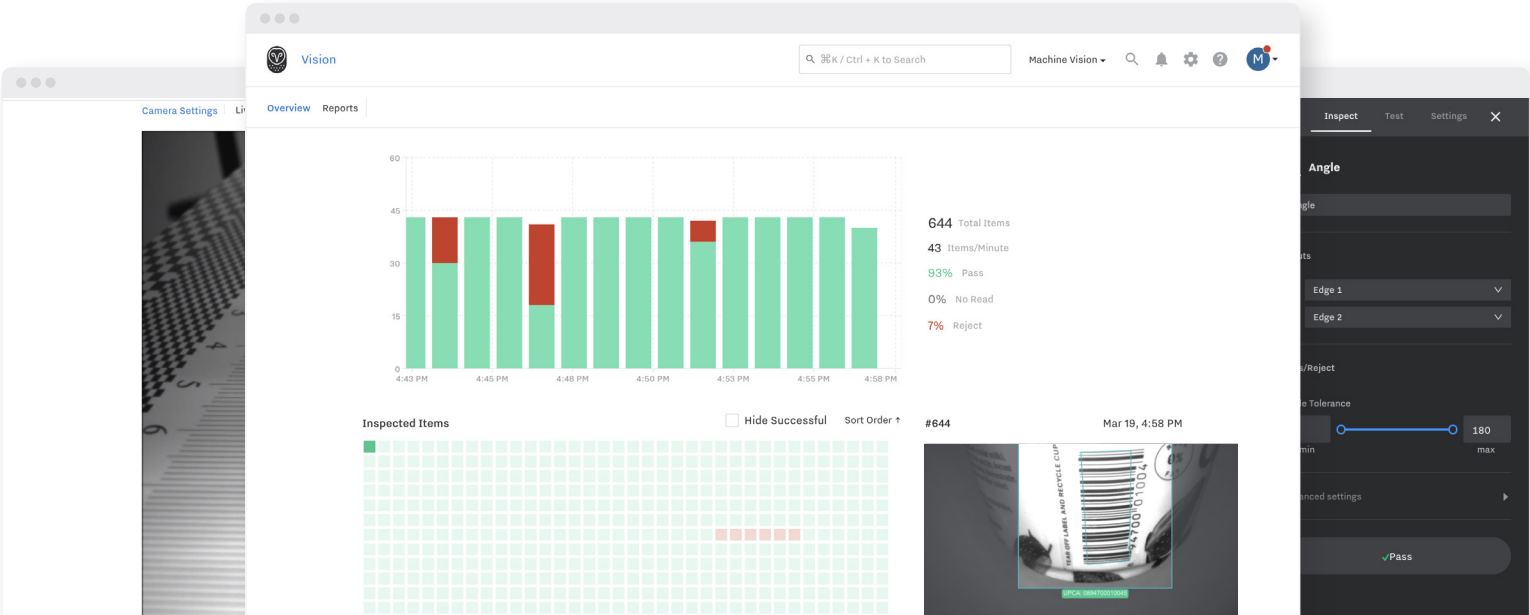
Impossible Foods

Impossible Foods uses Samsara to automate and monitor manufacturing processes, verify food safety and compliance, and maintain product quality.

The Impossible Burger's universal appeal and international demand have created the need to document and scale procedures that ensure product quality and food safety measures throughout the production process. From packaging verification to quality checks, Samsara has supported Impossible in successfully scaling its manufacturing.

Josh Ballard, Technical Manager at Impossible, understands the challenges of scaling a production line while maintaining uncompromising product quality and safety, "Customers need to know what they're getting, and the more we can automate quality inspections to ensure that our packaging and coatings are perfect, the better off we'll be."

"

It's about protecting the product and keeping it safe and giving customers the information they need. Samsara machine vision cameras mean we can automatically identify if best by dates are correct for customers, and with the right lot code for traceability."

—Laura Shimmin, Packaging Development Lead

Solve key business challenges

PACKAGING INSPECTION

Prevent damaged packaging from leaving the factory, and ensure the product's freshness and appearance are preserved.

ASSEMBLY VERIFICATION

Check that multi-pack boxes and cartons contain the correct number of products, and verify bottles are filled to the right level. Ensure that accessories like attached straws or other components are present.

PRODUCT QUALITY

Confirm that products are consistent in appearance and size before packaging. Ensure that products are cooked to the right doneness or that the desired color is produced.

ALLERGEN MANAGEMENT

Verify that allergen labels are present, and ensure the right products are packaged in the right containers. Track items through the supply chain using barcodes to act quickly in the event of a recall.
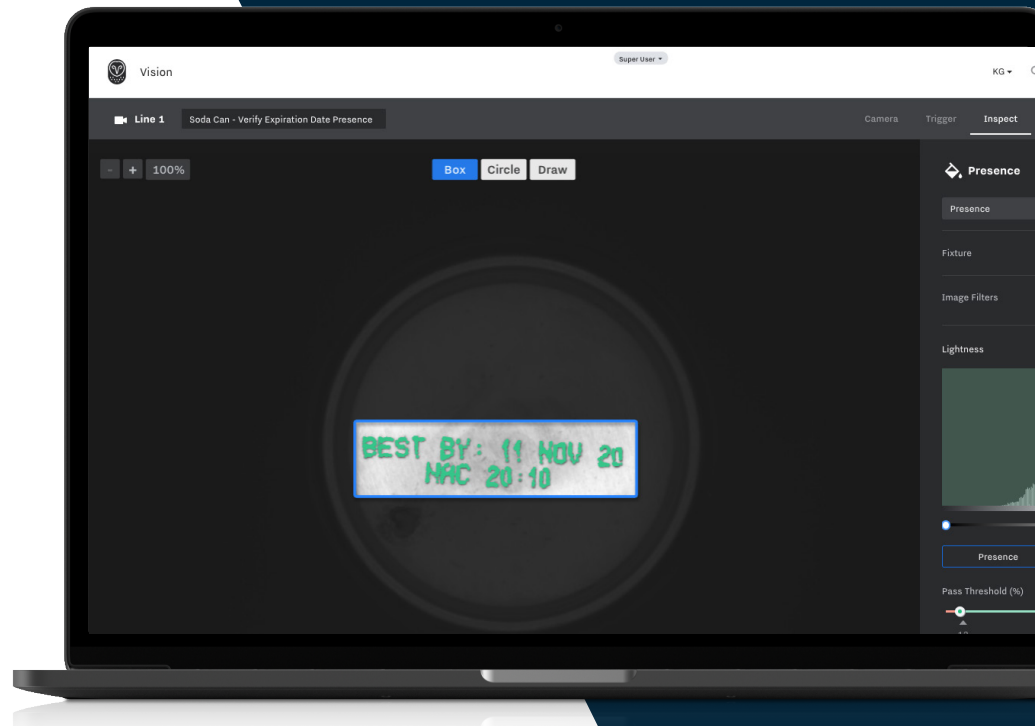
The Samsara advantage

➤ **FASTER SETUP**

Start inspecting your products with configurable, code-free tools.

➤ **ANYWHERE, ANYTIME**

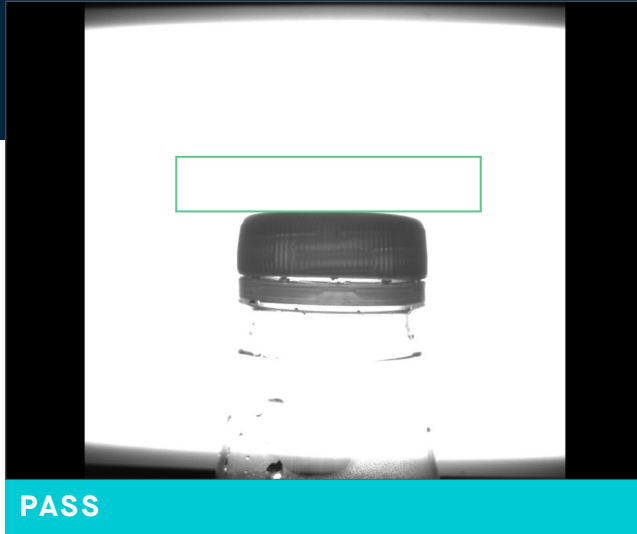Seamlessly manage your entire inspection process with our central dashboard.

➤ **TOTAL VISIBILITY**

Analyze real-time and historical production data with integrated traceability.

Cap Placement

Check that caps are present, intact, and aligned on bottles and other containers.

PASS

FAIL

Expiration Date

Verify that expiration dates are printed, correct, and legible on cans, bottles, labels, and any other types of containers and packaging.

PASS

FAIL

Label Verification

Match labels and verify they are placed on the correct products. Ensure all elements are present, printed correctly, and without tears or other defects.

PASS

FAIL

INSPECTION SPOTLIGHTS

Product Count

Ensure that six-pack drink holders, product cases, and other containers holding batches of individual products are assembled with the right number of items.


PASS

FAIL

Barcode Traceability

Verify that the correct barcode is printed and legible, and automatically log barcode data in the Samsara dashboard for instant traceability.

PASS

FAIL

Product Quality

Ensure that glass bottles, high-end packaging, and other product elements are free of dents, dings, scratches, and other cosmetic defects that undermine customer perception of quality.

PASS

FAIL
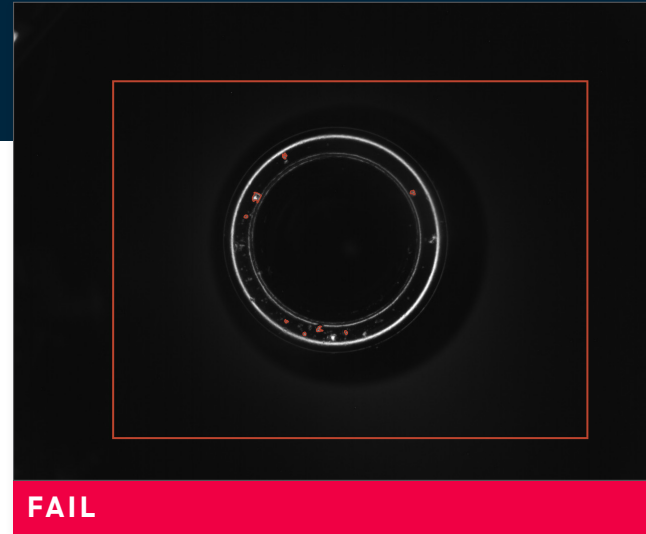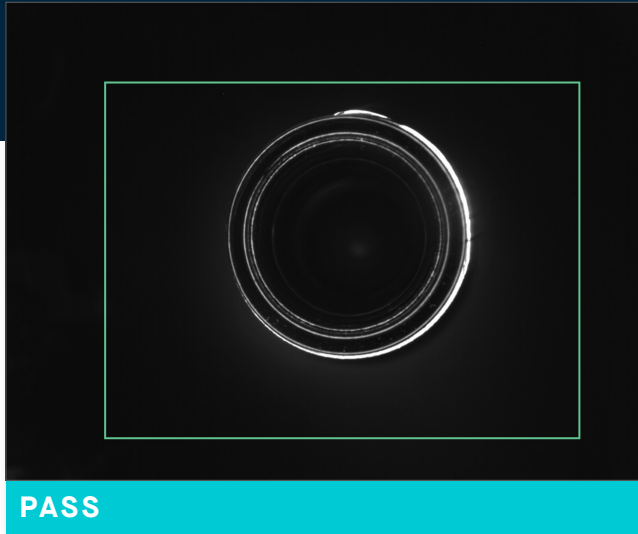
Tools for every inspection

- ➤ Label Verification
- ➤ Label Inspection
- ➤ Cap Placement
- ➤ Safety Seal Inspection

- ➤ Fill Level
- ➤ Best By Date
- ➤ Batch & Lot Codes
- ➤ Color Check

- ➤ Case Labels
- ➤ Product Count
- ➤ Accessory Presence
- ➤ Traceability

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