



**ANTARES VISION**  
**GROUP** RIGID CONTAINERS

## METAL CONTAINER INSPECTION

**ENSURE THE ABSOLUTE  
INTEGRITY OF EVERY  
FOOD, BEVERAGE AND  
AEROSOL CAN.**

World-class machine vision inspection  
systems for improving process quality,  
accuracy and consistency



# Metal Can Inspection

Antares Vision Group has set a higher standard for rigid container defect detection since 1997. With inspection solutions powered by Applied Vision technology and dozens of active patents covering decades of innovation, we know precisely what customers want from their machines.

Plant managers, quality controllers and process engineers are challenged to deploy efficient solutions for automatically rejecting nonconforming food, beverage and aerosol metal containers. Worldwide, we're counted on to maximize operational efficiency and streamline the integration of inspection systems in some of the largest can making facilities.

Our product portfolio can deliver a package of benefits to your plant including:

- **360° inspections**—identify defects without reorienting containers.
- **Self-learning software**—pinpoint problem areas with no extra programming required.
- **Leading-edge optics**—all LEDs and color cameras hand-picked for premium performance.
- **Flexible platforms**—standard and custom machines built and programmed for specific needs.

## Inspect for

creases • puckers • wrinkles • neck pleats • die/draw marks • cut edge • scratches • dents • coating voids • narrow flange • flange defects • flange measurement • grease and oil stains • foreign objects • metal whiskers • decoration • weld seams • and more





# Smarter Food Can Inspection

We excel at helping customers improve defect detection, reduce false reject rates, minimize waste and spoilage and protect their brand reputation every day.

Our extremely accurate inspection solutions target both two-piece and three-piece empty food cans. These in-line systems help ensure the absolute integrity of metal containers by performing a complete inspection. They can reliably detect weld seams, wrinkles, creases, puckers, scratches, dents, cut edge, flange, grease and oil, metal whiskers as well as powder stripes, die/draw marks and foreign objects among other inclusions, defects and inconsistencies.

Our business is bringing brighter ideas for metal container inspection to life. That's why Antares Vision Group solutions combine brilliant capabilities with intelligent ease of use.

With our Vision Systems, you can:

- Inspect the **inside can, body, neck and flange area** as well as **converted ends** for defects.
- Perform **100% inspections with extreme precision** on high-speed lines up to 3,000 ppm.
- **Maximize inspections in tight spaces** by packaging different lighting sources into the same assembly, so your inspections are not limited to one camera.
- Automatically identify and reject defects by type leading to **quicker process corrections**.
- **Make programming, analysis and changeover simple** for operators with touch-and-go user interfaces.





# That's Genius

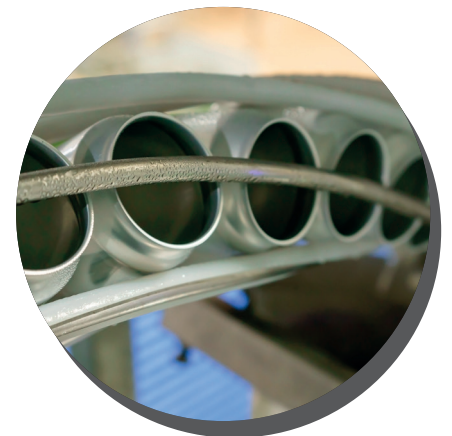
## Beverage Can Inspection

A flagship technology, our Genius® Vision Systems are found on thousands of production and packaging lines today. For over 25 years, Genius solutions have helped can makers **worldwide create new operational efficiencies** throughout their facilities. We can help you:

- **Eliminate costly guesswork** by pinpointing defect-causing makers, neckers and sprayers.
- **Spot rogue cans** before they ship. Genius also performs mixed label inspections.
- **Reduce downtime and increase throughput** with highly reliable and intuitive machines that need less attention.

Installed on conveyors, our system **identifies and rejects defects before palletization**. It is also **compatible with all neckers and provides upstream process feedback**.

We think you will agree—inspections are easier with a Genius at your side.





Our Vision Systems inspect the inside can, body, neck and flange areas as well as converted ends for coating voids, wrinkles, creases, puckers, scratches and dents—even mixed labels so rogue cans don't escape your attention. Any differences are flagged, and out-of-spec cans are automatically rejected.

We can show a better way to:

- **Configure and maintain multilane installations** for can ends and seams.
- **Inspect 100% of cans** on the line **with complete 360° coverage** of each container.
- **Accurately measure color** and **verify print quality** on two-stage decorated cans.
- **Also inspect for** spatial defects, color shifts, UPC degradation and printing plate flaws.
- **Tailor the machine operator experience** with a smart display, touchscreen or no display.

## Eye on Quality

Cyclops® is a **flexible, self-contained machine vision system** with its own processor, lighting source and camera, and housing. It features a motorized height adjustment that allows various container heights to be preprogrammed to run on the same line, while a second camera gives you the option to perform additional inspections.

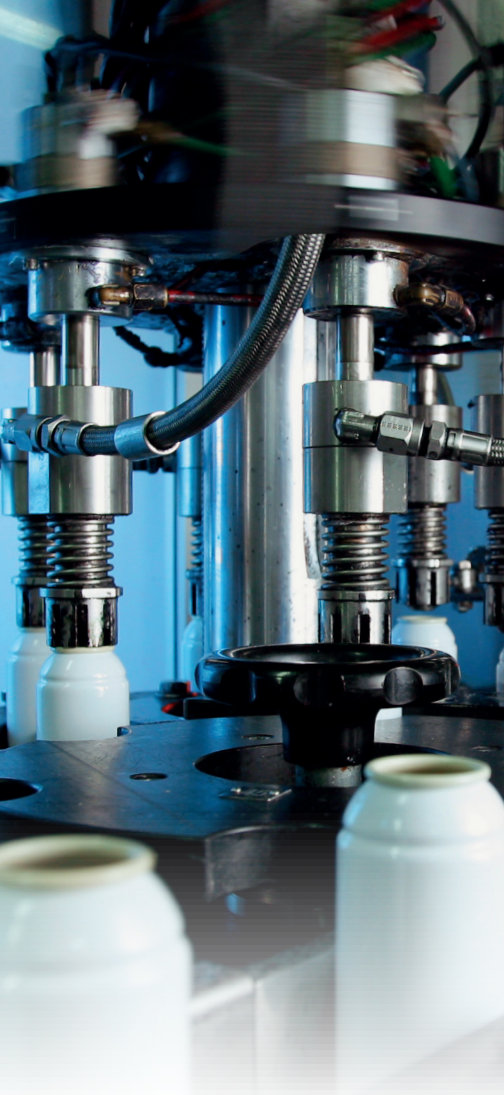
With Cyclops you can:

- **Run multiple cameras** on a single unit.
- **Preprogram different container heights** from 1 to 14 inches.
- **Minimize cabling and clutter** on your plant floor. Our compact single enclosure fits virtually anywhere you need it to.

Cyclops is engineered to **quickly solve inspection issues and easily adapt to new requirements**.







## Improved Aerosol Can Inspection

We also provide solutions for 100% inspection of aerosol cans including the inside can (un-necked), dome (before seaming), shoulder, curl (top-down), under curl (4-point side view), outside print on cylindrical shaped area (not the shoulder), and shoulder inspection for pleats, cracks, and other defects.

In addition, we also inspect bottle beverage cans for thread defects, sealing surface, and outside print on cylindrical shaped areas (not shoulders). All aforementioned machine vision inspections are performed by our Genius systems.

**All systems use the latest high-speed cameras** with the optical configuration set up for the inspections taking place.

- **Operators essentially teach the system** to identify different defects as they appear on the screen rather than draw from a library of possible preassigned defects.
- **The system maintains a count of each type of defect detected** and can be set up to alert the operator if the percentage of a specified type of defect reaches a preset level.
- **Fast changeover between different aerosol can sizes** is made possible by built-in height adjustment features.

We combine exceptional optics and processing power in **compact, rugged enclosures that can operate anywhere in your manufacturing plant or packaging facility**. Call us to talk about **intuitive, convenient and affordable packages for aerosol can inspection**.

## Complete Decoration Inspection

Our KromaKing® DecoMatch™ system lets you **accurately measure color and verify print quality** on decorated cans. This standalone offline inspection unit provides Delta E, Delta E CMC and Delta RGB color space data, and supports the RGB, Lab, HIS, CMY and Density color spaces.

It's everything you need to **close the loop on color and brand control**.

Our inline system is the Orion G6™, which inspects 100% of two-piece cans on the production line at manufacturing line speeds. Orion G6 provides an unwrapped, 360° color image of the entire can surface and compares it to a reference image as the standard. Any differences – spatial defects, color deviations, misregistration, UPC degradation, fabrications flaws, ink spots and water stains are flagged, and out-of-spec cans are rejected.



## There's More to See

Machine vision systems from Antares Vision Group bring you **the proven technology of Applied Vision Corporation** more efficiently than ever before. Together, Antares Vision Group accelerates innovation by **connecting manufacturers' physical and digital worlds** with integrated supply chain advantages including product **serialization, data management and AI possibilities** that empower brands to protect product, profit and people.

We support plant supervisors, engineers, QA managers, technicians and others tasked with maintaining quality standards for rigid cans. Including digitalization solutions for understanding your product's journey throughout the supply chain, we'll help you protect your brand reputation, relationship with your customers and the end consumers of your product.

Our ongoing development of application-specific technologies that meet ever higher standards for accuracy, cost efficiency and ease of use is why leading can makers continue to turn to us to serve their worldwide operations.

## Never Face Another Challenge Alone

All Antares Vision Group inspection solutions are backed by world-class support, with service engineers dispatched to your facility within hours when necessary.

We believe sophisticated technology is only practical if it is easy to use. Let's talk about improving your inspections and reducing false rejects with solutions already installed on thousands of production lines across the world.

Learn more about quality inspection solutions for metal containers at [appliedvision.com](https://www.appliedvision.com).



## Quality Inspection for Filled Containers

We can also connect you to the latest inspection and control devices for bottling and packaging lines for filled beverage containers. From the **inspection of empty containers and caps to the filling levels**, accurate capping, leakage detection, measuring the internal pressure of the container and weight control, checking the label and laboratory analysis, we know how to **optimize the quality of the final product, improve safety and reduce your operating costs**. All inspections are performed within the Antares Vision Group family of companies.





**Call us to start optimizing your operation.**

Antares Vision Group provides machine vision inspection systems for the manufacturing and packaging of rigid containers. As one company committed to optimizing end-to-end customer logistics, Antares Vision Group connects physical inspections to digital track and trace solutions to smart data possibilities.

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