BULL®
TECHNOLOGY

IMAGE 120

Cap and Fill Level Inspection System

Cap & Fill Level Inspection– BBULL IMAGE 120

The IMAGE 120 is a versatile camera system.

With just three cameras, it offers a full coverage of the container to check bottle caps, their color, and even fill levels.

Beyond the basic inspection, it can also verify crown caps, corks, knurling of aluminum closures, and visible labels.

Essentially, the IMAGE 120 guarantees, with precision and efficiency, that every product meets your quality standards.

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Benefits

Comprehensive Inspection Coverage

With its Tri-Camera System, IMAGE 120 delivers full inspection coverage from three sides, identifying cap tilts & smileys from different directions that might elude other systems.

Innovative Illumination

The unique mix of top-light and background lighting provides a crisp view of contours while enabling cap color detection.

Versatility

IMAGE 120 is more than just a cap inspection system; it's a versatile solution for various quality control tasks focusing on the top part of the bottle.

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Benefits

Outstanding Precision

The marriage of multiple cameras and innovative lighting ensures accuracy in fault detection and product quality verification.

Global Recognition

Being a globally recognized and tested system, it ensures you're investing in a tried-and-true solution.

User-Friendly

Equipped with cutting-edge high-performance PC technology and a 21" graphic display, the IMAGE 120 system offers an intuitive interface, presenting all pertinent data related to your production.

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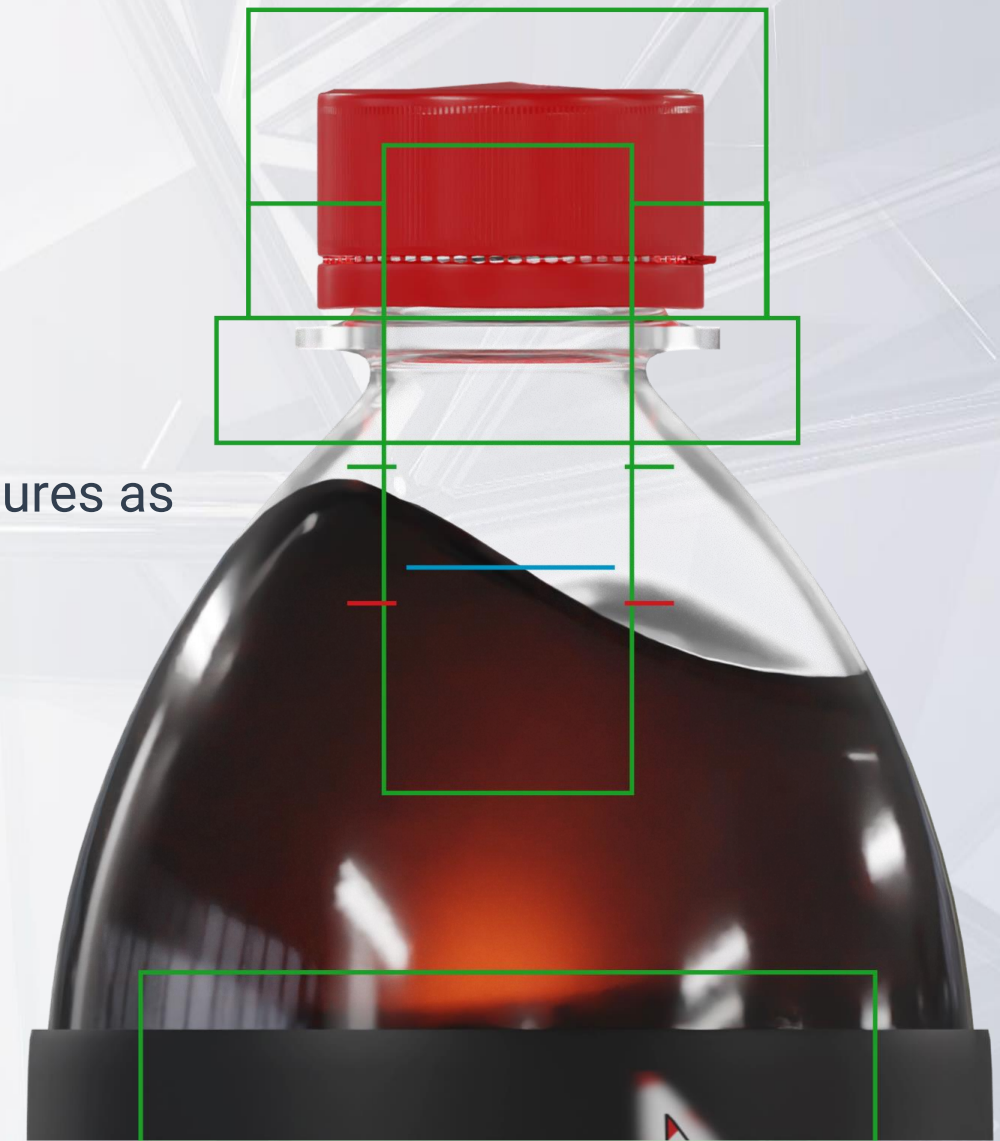
Application

Lid Inspection:
Suitable for all standard screw caps.

Fill Level Inspection:
For all transparent bottle types.

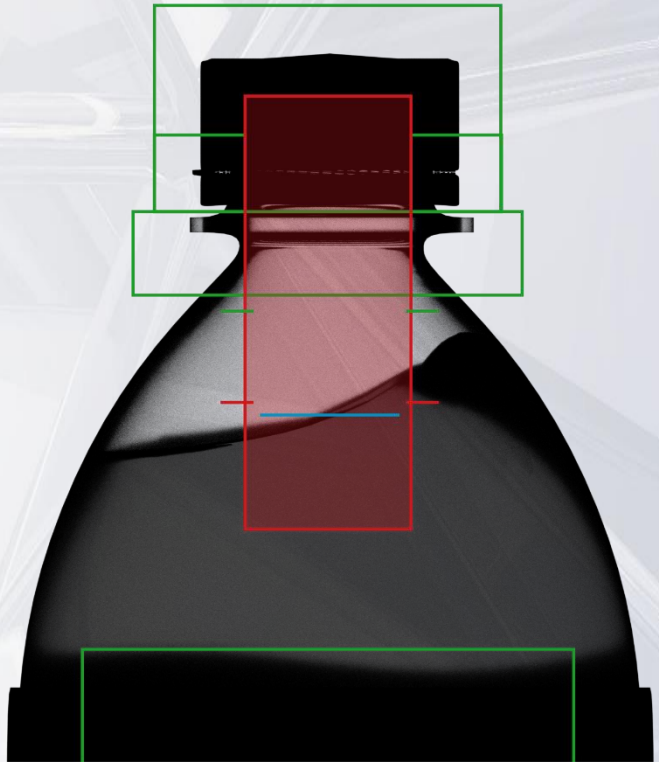
Alternative Uses:
Can also check the knurling of aluminum closures as well as corks and crown caps.



Detection

IMAGE 120 offers in-depth and comprehensive inspections for a range of issues

- Cap Inspection
  - Smiley, fit, color
- Fill Level Inspection
  - Underfill, overfill
- Software extension
  - Label Presence
    - If visible in the image capture
- Cork Check
  - Presence, fit, damage
- Knurling Checks
  - Insufficient or missing knurling
- Crown Cap Positioning
  - Presence, fit



Process

Tri-Camera Capture
Three cameras capture images from different angles for a comprehensive view.

Image Processing
The images are processed, highlighting shapes and colors for detailed inspection.

Inspection Analysis
The system compares the captured images and shapes with the set ROIs (regions of interest) to ensure the predefined markers are met.

Data Collection and Analysis
IMAGE 120 provides data about the inspection process, which can be used for process optimization and improving quality control over time.

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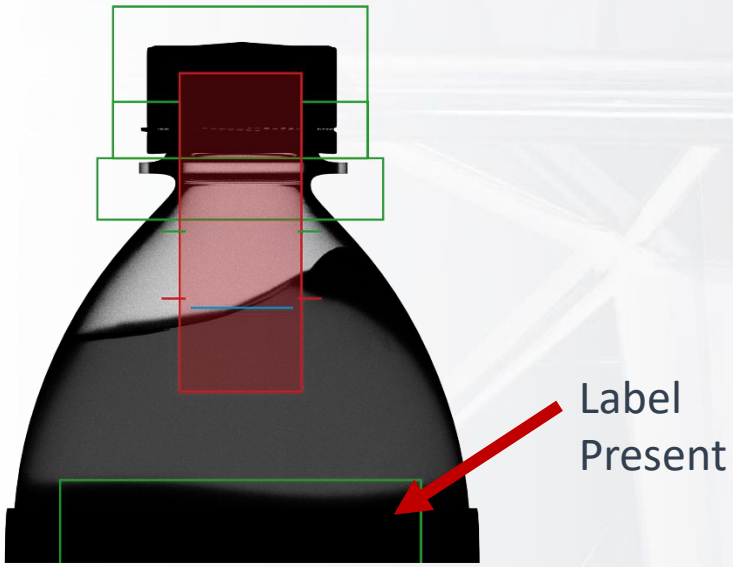
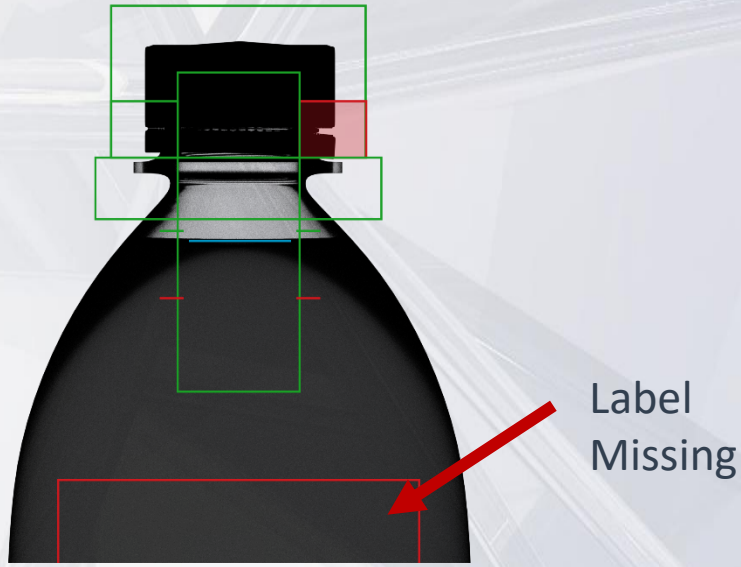
Software Extension

Further enhance the system’s capabilities with software extension for label presence detection. But this is only possible if the label sits high enough to be in the detection area.



Label Present



Label Missing

Features

Up to **90,000** containers per hour
Integrated tracking
Operation & visualisation via
- 21” display

Easy teach-in
Advanced statistics
Connectivity with other BBULL systems
Multi-line concept
Cascadable- & expandable
Remote maintenance
Compact design

Expansions

Fill Level Inspection

- **ALPHA-X**

Leakage Inspection

- **ALPHA-PULSE**

Recommended Rejection System

- **PUSHER** – Pneumatic/Servo rejection system
- **FLEX** – Pneumatic rejection system
- **BOS** – Servo rejection system
- **Variocurve** – Servo rejection system

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Take the Next Step!
Request Further Information Today

Contact us to learn more about our system and how it can help your business succeed. Our team of experts is ready to answer any questions and provide you with a personalized solution.

Don't wait, make a call or send an email today and learn about the difference our system can make!

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