



## **IMAGE TRAY**

Cups & Plates

Inspection System

# Cups & Plates Inspection System - IMAGE TRAY

Elevate quality control with decor inspection, Best Before Date verification, and cup insertion checking.

Invest in reducing product recalls, protecting consumer safety, and boosting brand reputation with this advanced system.

Improve production, minimize waste, and enhance customer satisfaction in the food and beverage packaging industry with this innovative solution.



# Benefits

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## Enhanced Quality

Assurance Ensure precise decor inspection, accurate Best Before Date verification, and correct cup insertion for consistently superior product quality and reduced defects.

## Boosted Production

Efficiency Automate inspection processes, streamline workflows, and minimize labor-intensive tasks to optimize production efficiency and reduce waste.

## Preventive Maintenance

Detect potential issues early, enabling proactive maintenance scheduling, and minimizing unplanned downtime to maintain peak performance.



# Benefits

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## Improved Customer

Satisfaction Deliver consistently high-quality products that meet consumer expectations, building trust and loyalty in your brand.

## Data-driven Decision

Making Leverage advanced data collection and analysis capabilities to optimize production processes, enhancing efficiency and quality control.

## Scalability and Flexibility

Easily integrate the system into your existing production line, with the adaptability to accommodate varying product lines and packaging types as your business grows.



# Application

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The BBULL IMAGE TRAY system can be applied to various areas within the food and beverage within the tray, including

- Dairy products
- Ready-to-eat Meals
- Confectionery
- Canned foods
- Beverage containers
- Pharmaceuticals
- Cosmetics and personal care products



# Detection

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**Decor issues:** Damaged or incorrect labels/graphics.

**Best Before Dates (BBD):** Verify expiration dates for safety/compliance.

**Incomplete Print Characters:** Absent/partial logos, barcodes, or text.

**Lot/Batch Numbers:** Verify accuracy for traceability.

**False/Mismatched Plates:** Detect incorrect plates in production.

**Cup Verification:** Ensure correct cups are inserted.

**Seal Integrity:** Identify improperly sealed/damaged packaging.

**Serial Defects:** Detect recurring faults/defects for corrective action.



# Process

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1. **Product Feeding** Products move along the production line, positioned for inspection.
2. **Inspection Bridge:** Cameras capture images of products from the top for comprehensive inspection.
3. **Image Analysis:** The system analyzes images for asserted shapes.
4. **Decision Making:** The system determines if all to be detected forms are detected and all imprints are readable.
5. **Rejection System:** Faulty products are removed from the production line using a suitable rejection system.
6. **Data Collection and Analysis:** The system collects data to optimize production processes and improve quality control.
7. **Reporting and Integration:** Real-time data, statistics, and results are displayed, with seamless connectivity to other systems.

# Features

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- High-resolution Cameras: Matrix digital cameras (GigE) provide comprehensive and accurate inspection of products.
- Advanced Image Analysis Algorithms: Reliable detection of defects, inconsistencies, and inaccuracies in product packaging.
- Easy Teach-In: Simplified setup and product changeovers for efficient production.
- Assortment-Based Inspection: Customizable inspection criteria tailored to specific product types or batches.
- Data Collection and Analysis: Advanced data capabilities for optimizing production processes and improving quality control.
- Seamless Integration: Compatibility with various production lines and software systems, including Industry 4.0 readiness.
- User-friendly Interface: Real-time data, advanced statistics, and inspection results displayed on an intuitive touch display.



# Expansions

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## Logo Inspection

- **IMAGE Logo**

## Recommended Rejection System

- **CRATE PUSHER** – Pneumatic/Servo rejection system
- **FLEX SORTER** – Pneumatic rejection system
- **VARIOCURVE** – Servo-driven discharge system
- **SERVO PUSHER** – Servo-driven discharge 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!

