



Industrial Vision Systems

• Innovation • Knowledge • Success •

## **EMPTY BOTTLE INSPECTION SYSTEM**



**Tej Control Systems Pvt. Ltd.** Plot no 329/331, Satish Ind Engg, Road no 25, Wagle Ind Estate.  
Thane (W). Mumbai, India Ph : +91 22 25838191 to 97 Fax:+91 22 25838199

[www.tejivs.com](http://www.tejivs.com)

## **EMPTY BOTTLE INSPECTION SYSTEM**

**EMPTY BOTTLE INSPECTION SYSTEM** developed by the TIVS is a comprehensive inspection solution for the visual defects occurring in sample which is giving by you. The Inspection system is compact in design and can be easily integrated into existing production lines.

### **Highlights of the system**

- ✓ Designed to work in the industrial environment.
- ✓ Can be easily integrated into the existing machinery.
- ✓ Easy menu based programming. Doesn't require knowledge of programming languages like C or C++
- ✓ Faster System Integration leading to Faster ROI.
- ✓ Optional data Capturing system to store and report shift wise data.

### **Standard Solution Offering**

The solution offering are strategically designed to suit the industry needs.

The system comprises of the following stations:

- Multiple Camera High Resolution based Inspection System.
- High speed Vision Capturing & processing System.
- High speed Strobe controlled Lighting system.
- LCD monitor for process monitoring.
- Programming console or mouse for programming the Vision System.
- High speed rejection system.
- PLC based control Station.
- Complete mounting accessories.
- Inspection station for inspection of various defects.
- Pneumatic Rejection Station for rejecting the defective samples.

**Optional:**

Data collection terminal to capture and store shift wise statistical information. The standard reporting features include:

- a. Total Components inspected
- b. Total Components rejected
- c. Rejected components tabulated fault wise.
- d. Graphs and trends to show the performance of the system.

**INSPECTION CAPABLITIS**

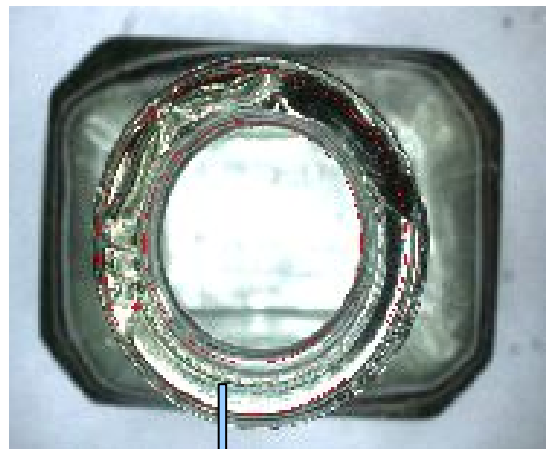
- BLACK SPOTS
- SCRATCHES
- SURFACE CRACKS
- FOREIGN PARTICLES/SPOTS

BELOW SHOWS THE CAMERA RESULT FOR **OK** AND **BAD** SAMPLES:

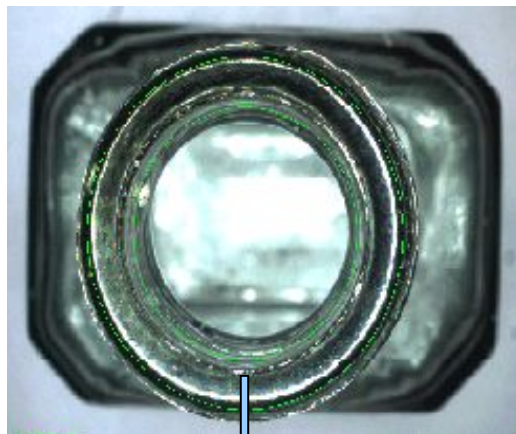
CAMERA RESULTS FOR TOP VIEW OF THE BOTTLE SAMPLE:



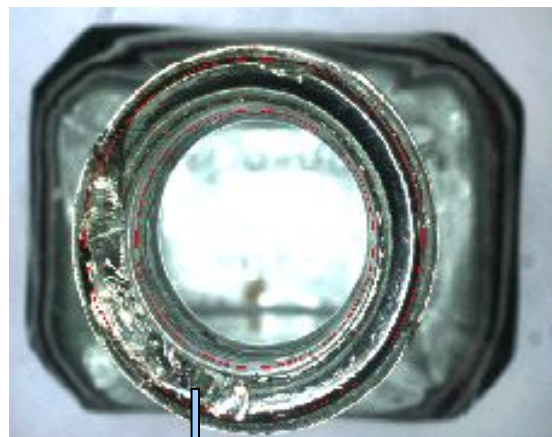
OK BOTTLE SAMPLE



BAD BOTTLE SAMPLE(MOUTH CRACK)



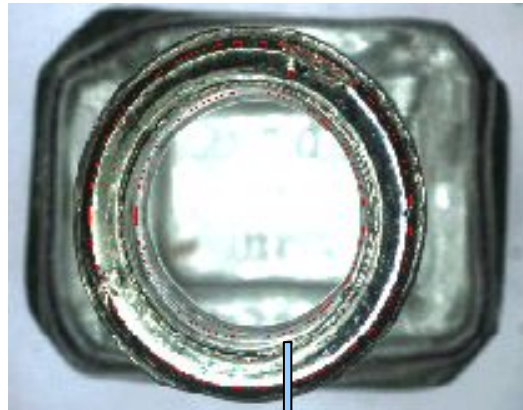
OK BOTTLE SAMPLE



BAD BOTTLE SAMPLE(MOUTH CRACK)



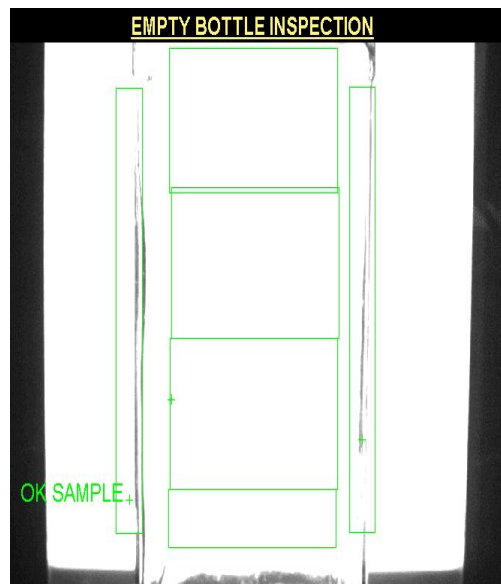
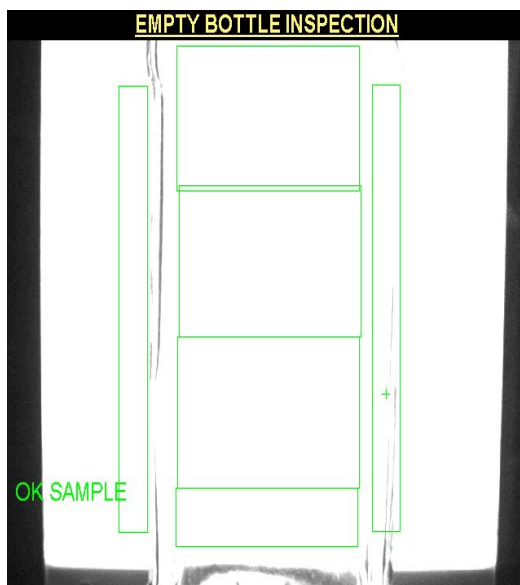
OK BOTTLE SAMPLE



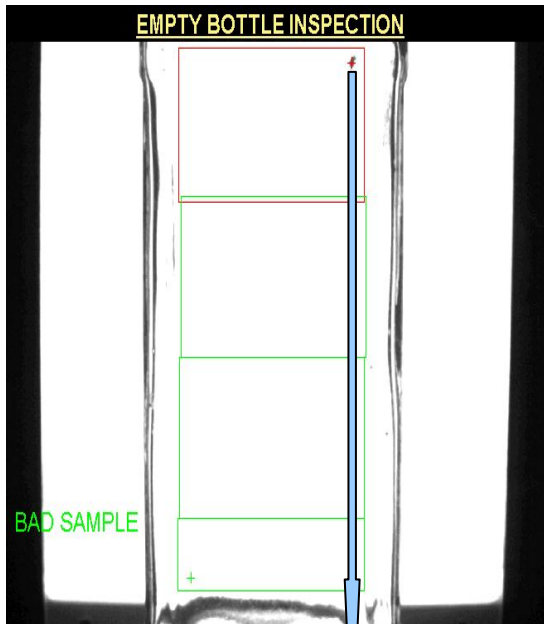
BAD BOTTLE SAMPLE(MOUTH CRACK)

**CAMERA RESULTS FOR SIDE VIEW OF THE BOTTLE SAMPLE:**

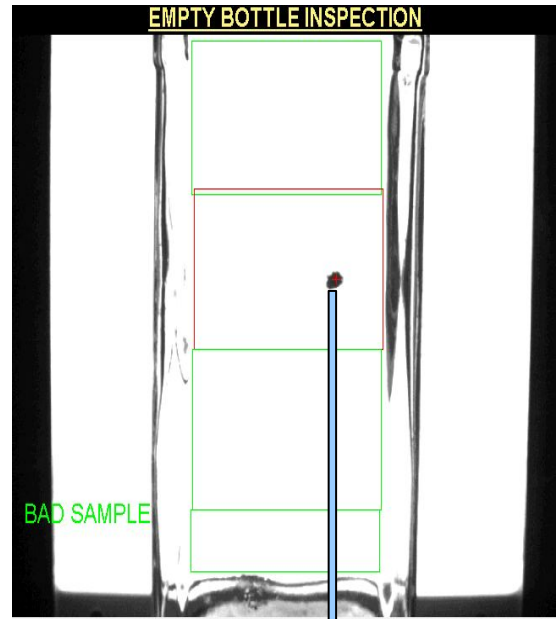
**OK SAMPLES FOR BOTTLE SAMPLE:**



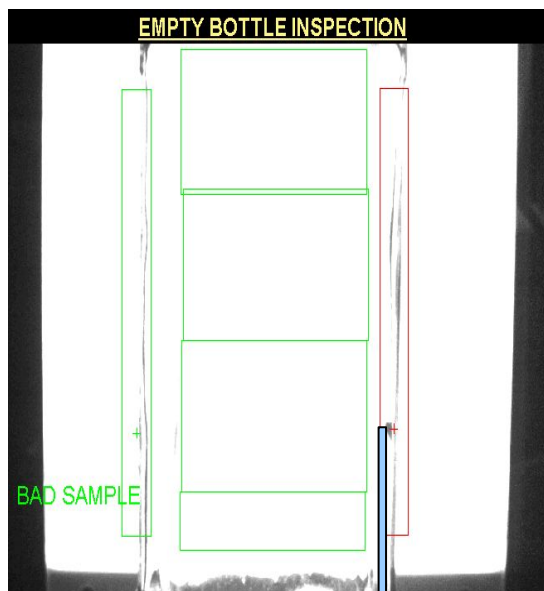
**BAD SAMPLES FOR BOTTLE SAMPLE:**



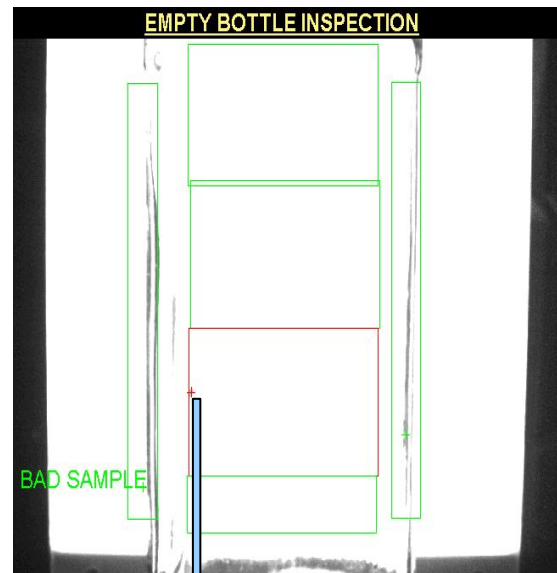
BLACK SPOT



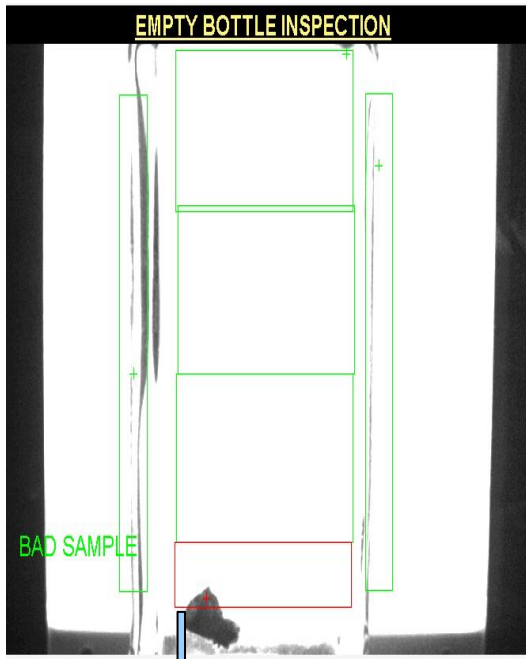
BLACK SPOT



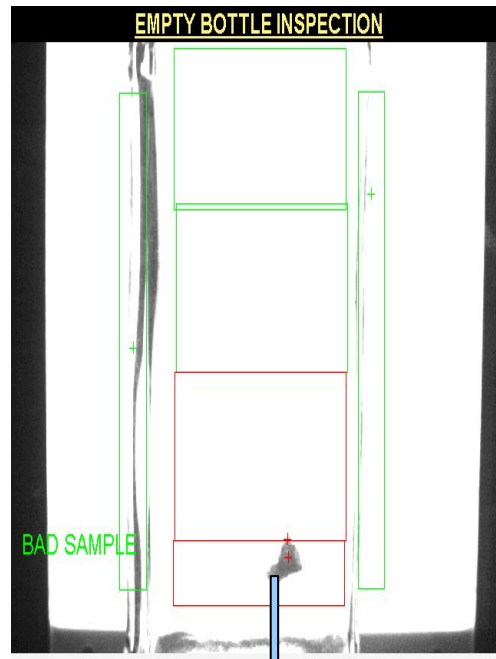
BLACK SPOT



SURFACE SCRATCH/CRACK



FOREIGN PARTICLE



BLACK SPOT

**CONCLUSION:**

Camera System is able to check for all the defined parameters with a good degree of accuracy and consistency is required by the client.

## Why Us

TIVS is driven by the core values of service, integrity, and innovation. Our strength lies in our agility to adapt to a dynamic market, and our ability to transform challenges into successful market opportunities.

Our capabilities target winning results by understanding your technology needs aligned to your business objectives. Our differentiator is in servicing our clients to make them win; when you talk to us, you will understand our technologists possess significant insight into your business processes, much better than many other service providers.

We are renowned for our ability to provide products, solutions and implementation frameworks that are delivered through a strong focus on core business issues, strong process orientation and industry domain knowledge. We partner with our clients and implement solutions to successful completion, and ensure that they realize the desired business benefits.

We consistently focus on:

- \* Reducing the Total Cost of Ownership (TCO) for our customers
- \* Understanding customer needs before making recommendations
- \* Offering solutions based on specific customer needs
- \* Creating an organization based on learning, innovation, and quality
- \* Enabling employees to realize their full potential
- \* Conducting ourselves with the highest sense of integrity

---

### **For more information contact:**

Tej Control Systems Pvt. Ltd.

Plot no.329/331,Road no.25,

Wagle Industrial Estate,

Thane west - 400 604.

Mumbai, India

Tel : +91 22 25838191 - 98

Fax : +91 22 25838199

E-mail : [tivs@tejcontrol.com](mailto:tivs@tejcontrol.com), [visionsales@tejcontrol.com](mailto:visionsales@tejcontrol.com)

Web : [www.tejivs.com](http://www.tejivs.com)