



Industrial Vision Systems

• Innovation • Knowledge • Success •

BOTTLE INSPECTION SOLUTION



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BOTTLE INSPECTION SYSTEM

BOTTLE INSPECTION SYSTEM developed by the TIVS is a comprehensive inspection solution for the Determination of **Defective bottle samples at Pre-filling & Post-filling stages**. 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 Color 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.
- Servo based Rejection Mechanism 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 SAMPLE NAME ABLITIS	<i>PRE-FILLING PARAMETERS :-</i> 1. BOTTLE MIX-UP DETECTION (PROFILE BASED) 2. BOTTLE MIX-UP DETECTION (COLOUR BASED) <i>POST-FILLING PARAMETERS :-</i> 1. FILL LEVEL DETECTION 2. BOTTLE CAP PRESENCE/ABSENCE DETECTION 3. LABEL PRESENCE/ABSENCE DETECTION 4. PRINTING PRESENCE/ABSENCE DETECTION
PRODUCTS TYPE	On the basis of Samples provided by you.
CAMERA	Multiple High resolution Colour cameras with Dedicated High Grade & High Speed Vision Controller.
ILLUMINATION	High intensity LED Diffused backlighting & Ring Light in front .
BASIS OF INSPECTION	On the basis of total Samples present in the pack.
POWER SOURCE	24 V DC.

TABLE BELOW SHOWS THE CAMERA RESULT:

❖ PRE-FILLING BOTTLE INSPECTION FOR **PRODUCT MIX-UP DETECTION**:

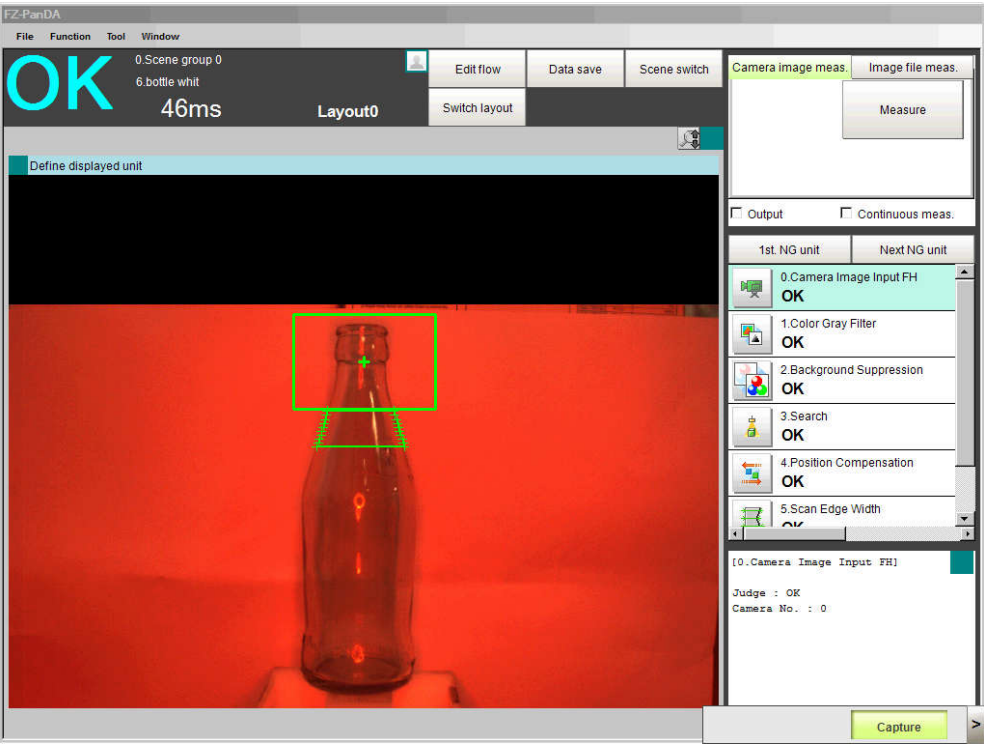
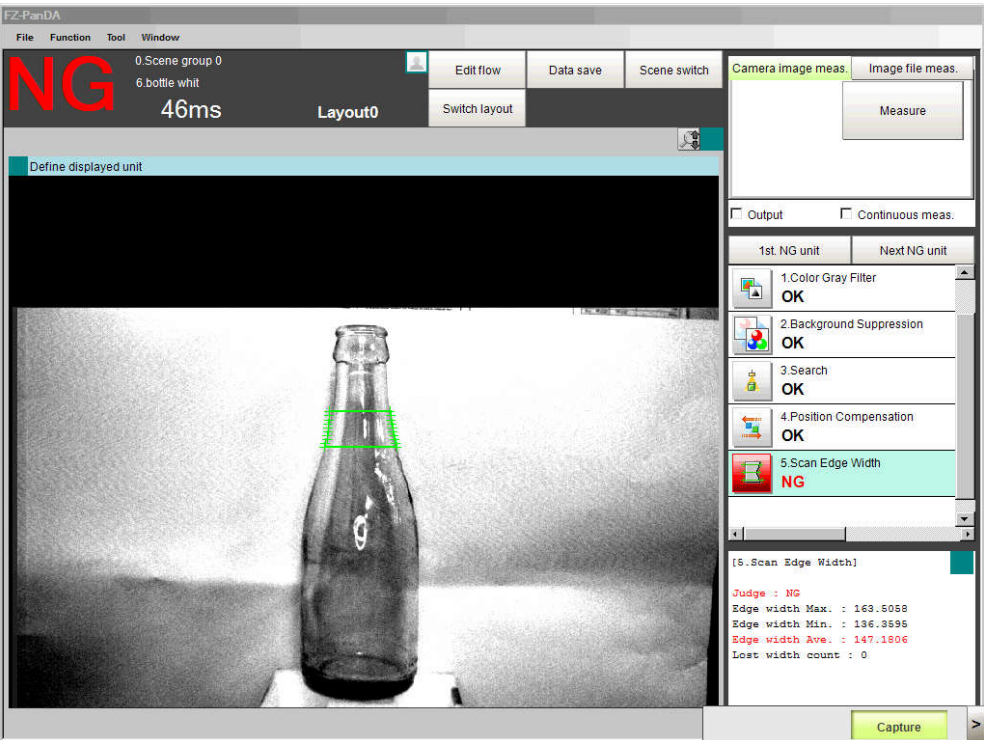
DESCRIPTION	TRIAL IMAGES
<p>MIX – UP DETECTION (Sorting is based on Color & Bottle Profile)</p>	 

TABLE BELOW SHOWS THE CAMERA RESULT:

❖ POST-FILLING BOTTLE INSPECTION FOR **FILL LEVEL DETECTION**:

DESCRIPTION	TRIAL IMAGES
<p>FILL LEVEL DETECTION</p>	

TABLE BELOW SHOWS THE CAMERA RESULT:

❖ POST-FILLING BOTTLE INSPECTION FOR **CAP PRES / ABS DETECTION**:

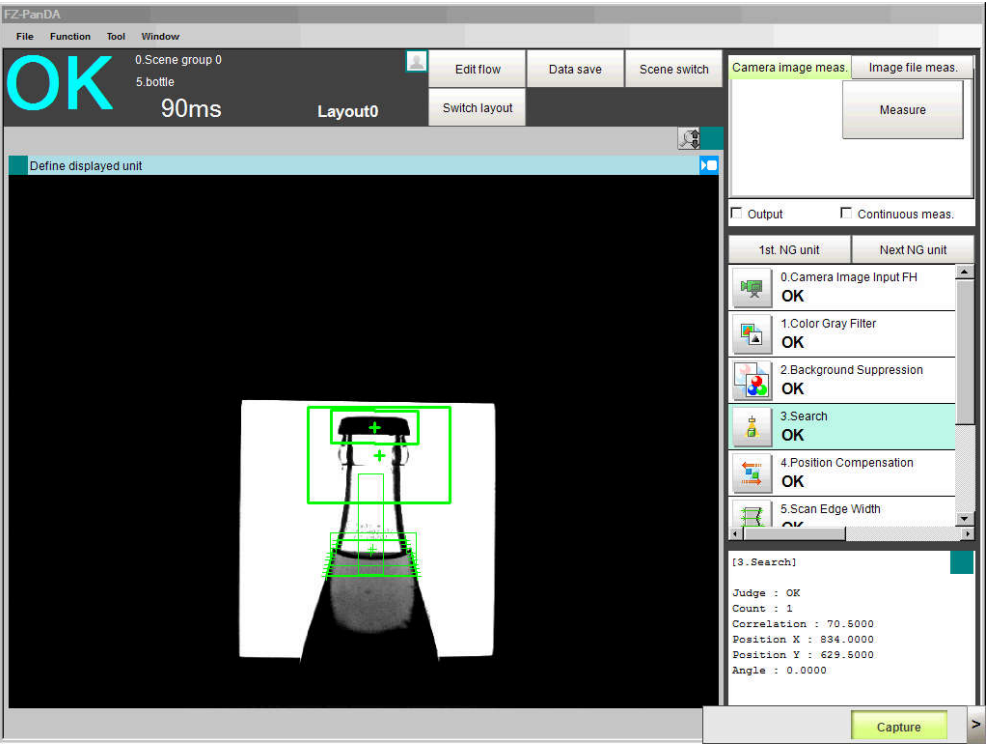
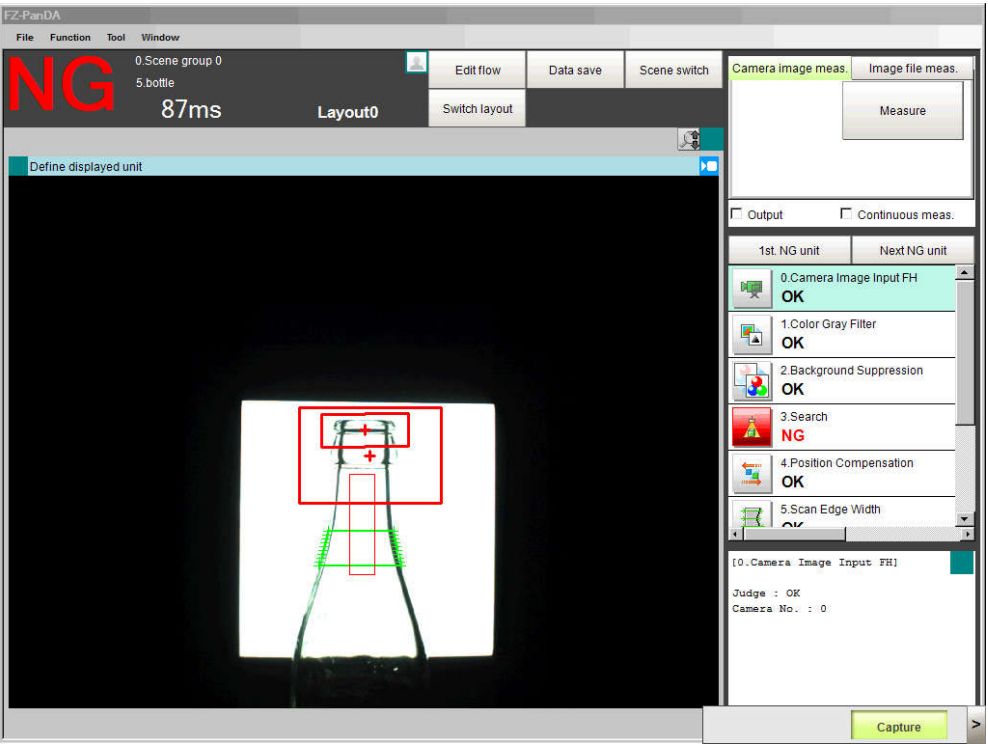
DESCRIPTION	TRIAL IMAGES
<p>CAP PRESENCE / ABSENCE DETECTION</p>	 

TABLE BELOW SHOWS THE CAMERA RESULT:

❖ POST-FILLING BOTTLE INSPECTION FOR LABEL DETECTION:

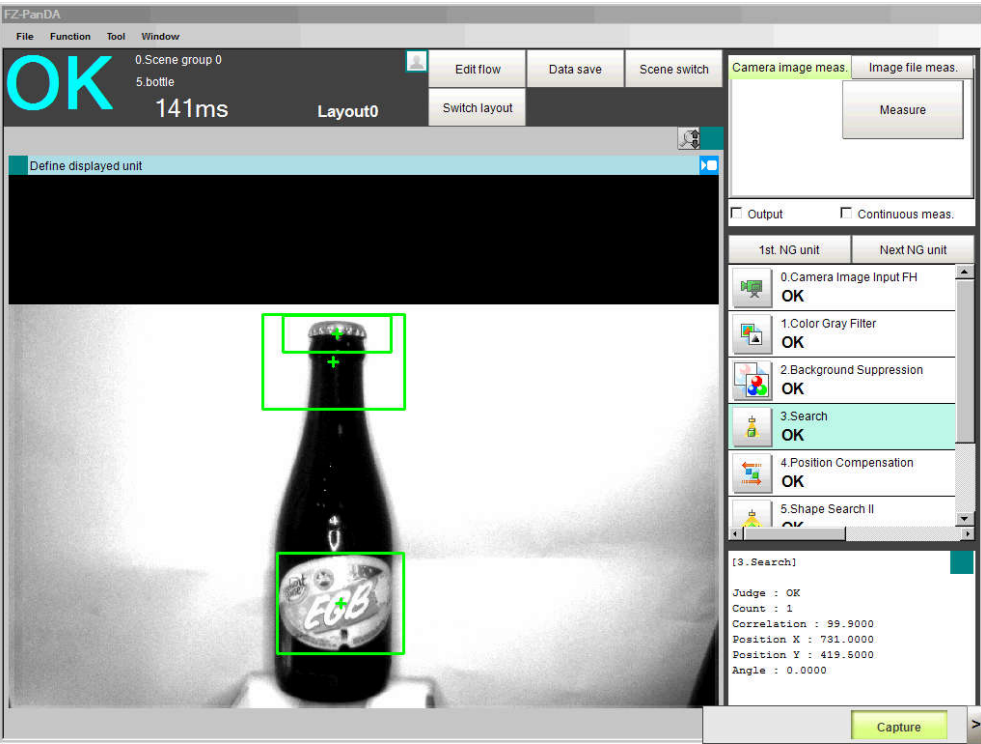
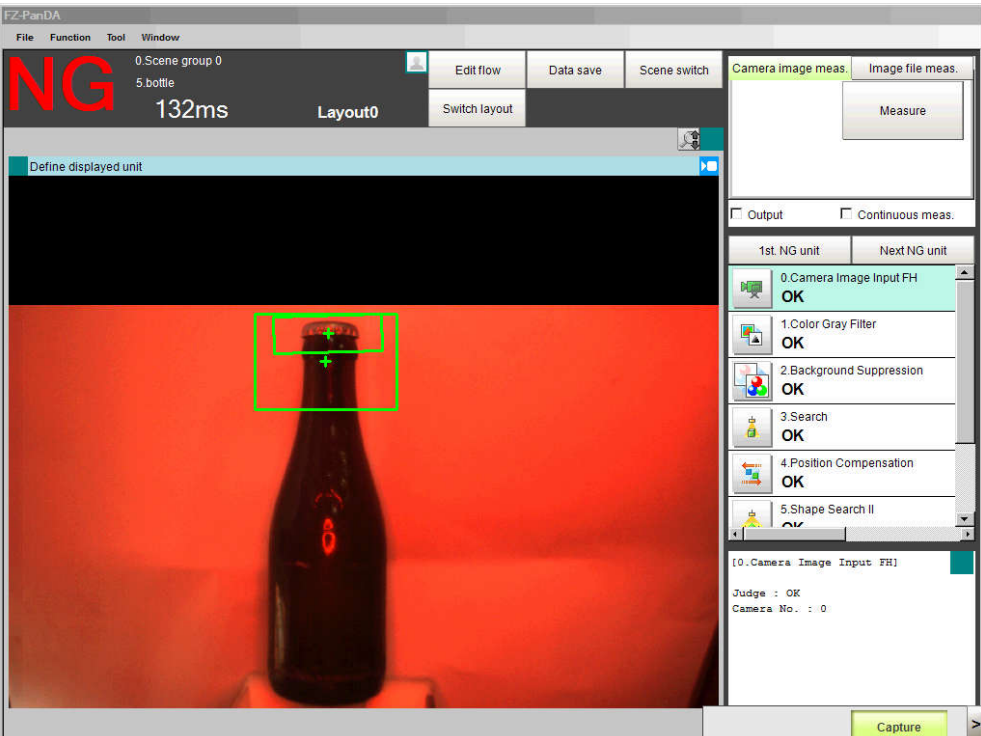
DESCRIPTION	TRIAL IMAGES
<p>LABEL PRESENCE / ABSENCE DETECTION</p>	 

TABLE BELOW SHOWS THE CAMERA RESULT:

❖ POST-FILLING BOTTLE INSPECTION FOR **PRINTING DETECTION**:

DESCRIPTION	TRIAL IMAGES
<p>PRINTING PRESENCE / ABSENCE DETECTION</p>	

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:

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