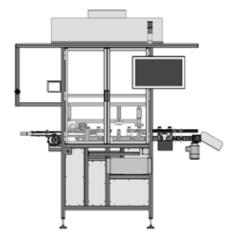


In-SPECt-6CV1 Plastic Bottles Vision Station

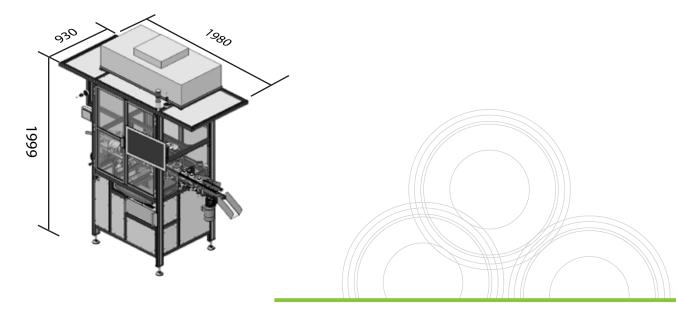
The In-SPECt-6CV1 Is the right solution when 100% plastic bottle inspection is needed. The Plug & Play station increases efficiency and improves product quality on your manufacturing line!

In-SPECt-6CV1 Inspection Features

- o 6 high-resolution cameras inspection: top, bottom and 4 sides
- o In-line inspection before packaging and/or filling
- o Max. speed: 2 bottles per second or 7200 bottles/hour
- o Automatic detection of bottle dimensions. Supported sizes: Diameter 30mm – 100mm Height 60mm – 200mm
 - o Top side inspection:
 - ✓ Bottle opening measurements: diameter, acircularity
 - ✓ Shorts and flashes starting 0.2mm long
 - Opening deformation
 - Spots/dirt on opening
 - o Internal inspection
 - Internally illuminating from top
 - Detection and measurement of foreign material
 - ✓ Detection of thin/thick walls



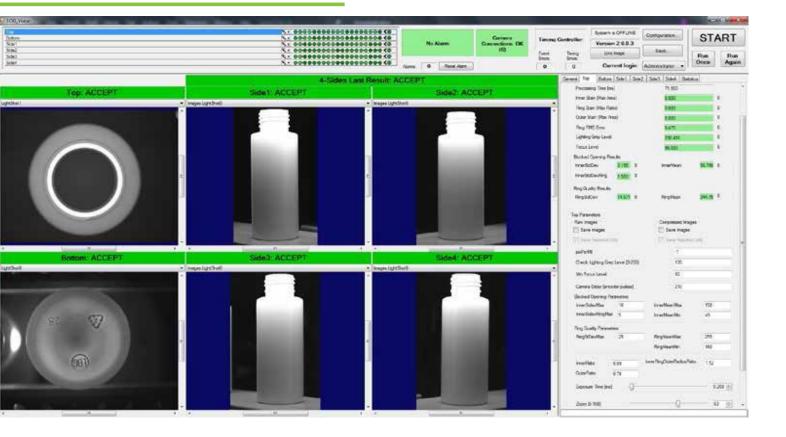
- o Side wall inspection:
- ✓ Bad dimensions
- Shape deformation
- Spots/dirt on bottle body
- Spots/dirt on bottle neck
- ✓ Spots/dirt on thread area
- ✓ Pigmentation / bad color
- o Bottom side inspection:
- ✓ Marking inspection
- Spots/dirt on bottom side

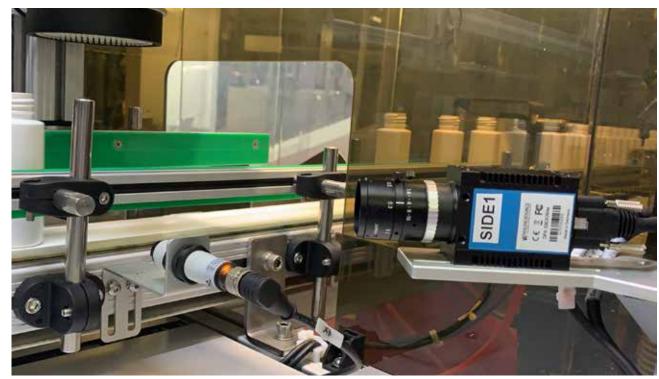


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In-SPECt-6CV1 User Interface Features

- o Live image display from all cameras
- o Defects overlay on image
- o History of last 20 inspected bottles
- o Parameters interface for inspection fine-tuning: controlling defect size, sensitivity, camera exposure etc.
- o Top camera electronic zoom/focus to adjust to different bottle heights
- o Load / save recipe with pre-defined parameters per bottle type
- o Easy calibration for new product automatic adjustment for different dimensions, color and marking , allows flexibility for various products.
- o Multiple privilege levels: Operator, Supervisor and Administrator.
- o Password protection for supervisor/administrator levels.
- o Built-In-Test (BIT) and diagnostics for easy troubleshooting.
- o Zoom-in for detailed view of the product and/or defect
- o Image saving option, based on inspection result





In-SPECt-6CV1 System Components

- o Fully working machine easily integrating into production line
- o Side conveyor for bottom inspection
- o Horizontal Conveyor for side / top inspection
- o Machine controller (PLC) with HMI
- o 4 side cameras
- o Bottom camera
- o Top camera with electronically controlled zoom/focus
- o Internal / external lighting for side walls
- o Internal / external lighting for bottom
- o External lighting for top
- o Protective housing for inspection area with partial ambient light transmittance for easy view of bottles movement
- o Sensors for product detection and rejecting
- o Airflow for cleaning lenses and cameras
- o Airflow for contactless products rejecting
- o Timing controller for encoder-based synchronization
- o Light controller for light strobe operation
- o Diagnostic lights