

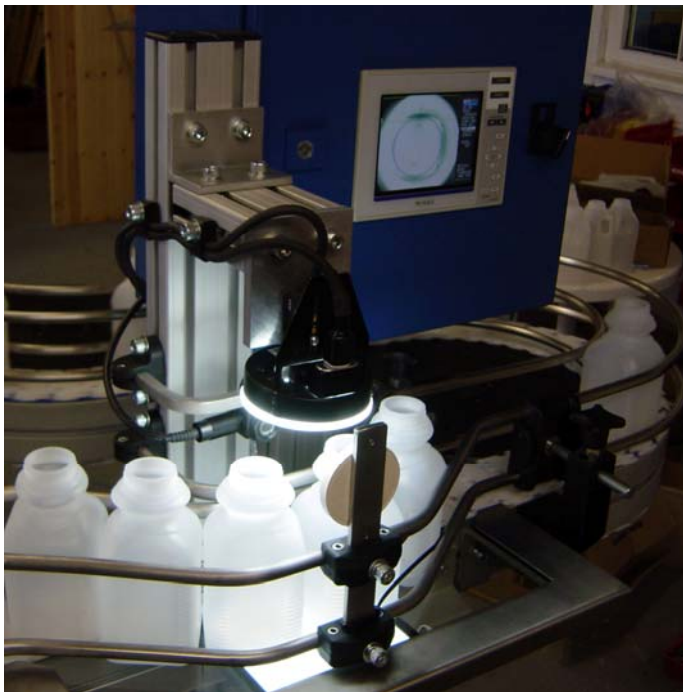


Northern Equipment & Conveyor Co.

**Custom equipment for
bottlers and blowmolders**

Vision Inspection

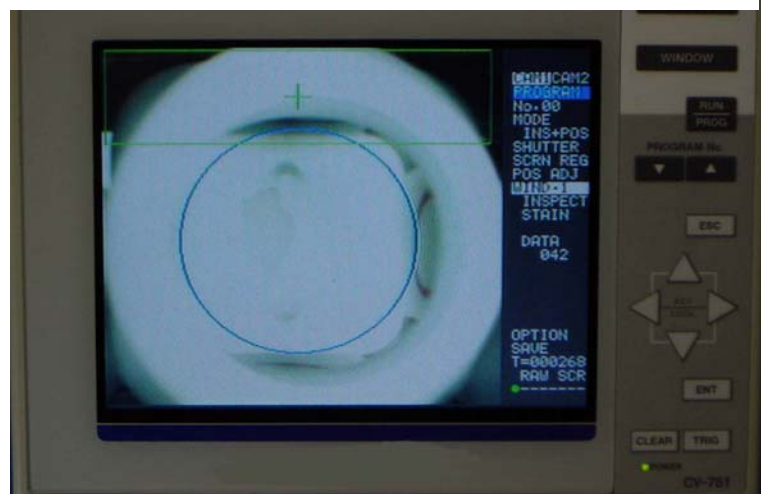
Vision Inspection Systems are becoming more and more popular thanks to the reduced cost and greater capabilities of modern systems. The ALS vision system can utilize 2 cameras and is a full color system making it suitable for a large number of applications. We specialize in all area of plastic container inspection, some of the applications are listed below.



- Debris Checking
- Material Contamination
- Neck Ovality
- Flash Detection
- Handle Formation
- Thread Quality
- Cap in Place
- Product Colour
- Label Orientation
- Dimension Checking
- Missing Print
- Count Products in pack

Depending on the type of inspection required, parts can be inspected while travelling on moving conveyors or if base inspection is required bottles can be guided off the conveyor over a clear, lit plate for cost effective base inspection.

The system processing equipment is all housed within a 6" color screen. With panel mount controls mounted on the front of the unit, product set-up and test is very quick and simple. The unit can store up to 15 different programs internally as well as an unlimited number of programs on compact flash cards via the built in memory slot.

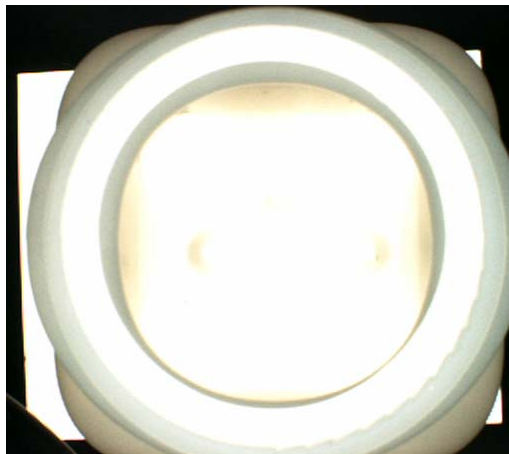


The system can process up to 8 different inspection windows in one program. Each window can be set-up with its own shutter speeds, inspection areas, inspection type and camera. Each window also has its own fault output which can be wired to different equipment. For example, if debris or contamination is present in the container, it can be ejected into a scrap area but if the unit has excess flash on it which can be removed by hand the unit can be diverted to a holding area where an operator can rework the product and send it on its way.

There are many different ways the camera or cameras can be set-up to detect different problems, the main types are as follows:-



- Presence / Absence mode
- Outer Edge / Inner Edge mode (dimension checking)
- Pitch / Gap mode
- Edge position mode
- Absolute position mode
- Flaw / Dirt Detection mode
- Product count mode
- Relative position mode
- Center of Gravity mode (Label position detection)



Example of Flaw Dirt Detection Mode,



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