OmniView
System

Three-dimensional products like bottles, tubes and cylindrical containers can pose significant vision inspection challenges.

The OmniView System allows for 360 degree in-line inspection of containers. This process traditionally has required line scan vision technology coupled with complex mechanical handling devices for image acquisition. OmniView enables less intrusive integration options and higher throughput rates. The system also allows for label inspection on the container, assuring a higher degree of labeling integrity versus label web inspection prior to application.

OmniView utilizes state-of-the-art vision technology to provide a 100 percent inspection of a cylindrical object's circumference. The system utilizes multiple cameras to obtain independent images of an object, then unwraps, flattens and stitches those separate images together to provide a full and detailed inspection of an object's entire circumference.

The OmniView is capable of running a wide array of vision tools including Optical Character Verification/Recognition (OCV/R), bar code inspection, print quality inspection, part gauging, pattern matching and more.

STANDARD SYSTEM FEATURES

- Powered by Cognex OmniView
- Inspection of products at up to 1,200 parts per minute
- Standard user interface, including log-in and access control and run time image viewing
- PC-based system including a 17-inch touchscreen monitor
- GigE camera technology – standard and high resolution
- Part inspection, including label ID and print matching, print quality verification, label skew and part placement
- Powerful and reliable OCV tools for alphanumeric verification of expiration dates, lot numbers, label numbers and product name
- Bar code inspection including DataMatrix, PDF417, 1D Codes, RSS, Pharmacode, Code 128 and more
- Aluminum or Stainless Steel imaging enclosure for quick installation and simple maintenance

Acquire Automation's OmniView system utilizes the latest in vision technology to provide the maximum visual inspection of cylindrical objects. The system utilizes multiple cameras to obtain a series of separate images of an object then splices those individual images together in a flat image to provide a full view of a cylindrical object's total circumference. The OmniView system provides a 100 percent inspection of the circumference of cylindrical objects, including medication labels (above) and food labels (over).

SYSTEM OPTIONS

- Encoder for product tracking and rejection
- Stacklight (three-color with horn)
- UPS back-up for data conservation and system shutdown in the event of a power loss
- NEMA 4X wash down-rated stainless steel imaging enclosure
- 21 CFR Compliance Package:
    - Audit trail: Date, time and user ID are recorded with each event
    - Hard copy of audit trail can be generated
    - Electronic Signature: Documents generated can be securely signed
    - Secure encryption and decryption provided

A complete system validation package is available. Acquire Automation can provide a standard validation package or provide a proposal to develop and execute validation following customer templates and procedures.