

Machine Vision Components & System Integration



- Pharmaceutical & Medical Devices
- Food & Beverages
- Automotive
- Plastics
- Electronics
- Packaging

Lambda Photometrics have been providing automation and Machine Vision solutions for over 40 years. Our experience serving the food and drink industry has been applied from the raw ingredients, morning goods, canned or bottled beverages, processed and frozen foods.

The need to ensure full traceability of supply, increased product quality and the correct labelling and packaging, is driven by government standards agencies, retailers and importantly the general public. Any scandal associated with food and drink preparation and quality can cause major issues for any company brand.

Adherence to *Good Manufacturing Practice* and relevant standards drives the need for automated inspection systems. Ensuring compliance, traceability and reduced manufacturing and recall costs, by getting it "right first time" and preventing the despatch of defective products. This can apply to laboratory, in-line and end-of-line inspection systems.

Our systems include single function checks, for example; monitoring the correct fluid levels or correct labelling, to fully integrated inspection systems, monitoring packaging, labelling, surface inspection and or product quality, using Raman, NIR spectroscopy and Hyperspectral or Multispectral Imaging of product, controlling an analogue output for

your handling, conveyer and logistics systems. These systems can be fully integrated with existing ERP and manufacturing process systems to reduce the risk of distributing non-conforming product. Systems can keep recorded data for step by step source traceability or post event audit checks.

Lambda can provide single check to turn-key systems for incoming inspection, picking and placing, quality control and packing and logistics functions. Typical applications can be found below and examples of successful installations are overleaf.

Applications include:

- Cap and safety seal checks
- Damaged product rejection
- Packaging and labelling Inspection
- Container fill levels & product orientation
- Part number, date, expiry & batch checks
- Colour and shape sorting
- Product identification

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Food & Beverage Industry



Inspection of best-before dates & print quality

Checking best-before dates
Presence and position
Position of safety closures
Size checking (angle, length, thicknesses, heights, inclination)
and much more....

Packaging

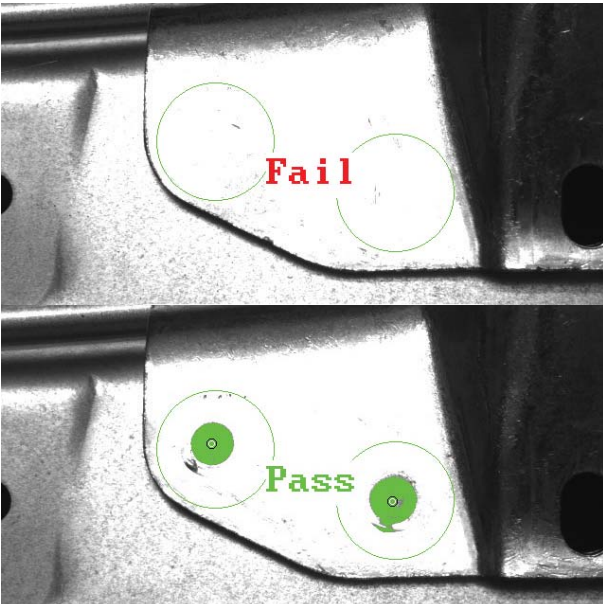


Automated barcode & package recognition system

Cap monitoring
Foil wrapping seams
Label inspection (logo, text, code, product content, etc)
High speed line monitoring
and much more....

To view a demonstration video please go to
www.lambdaphoto.co.uk/palletscan.html

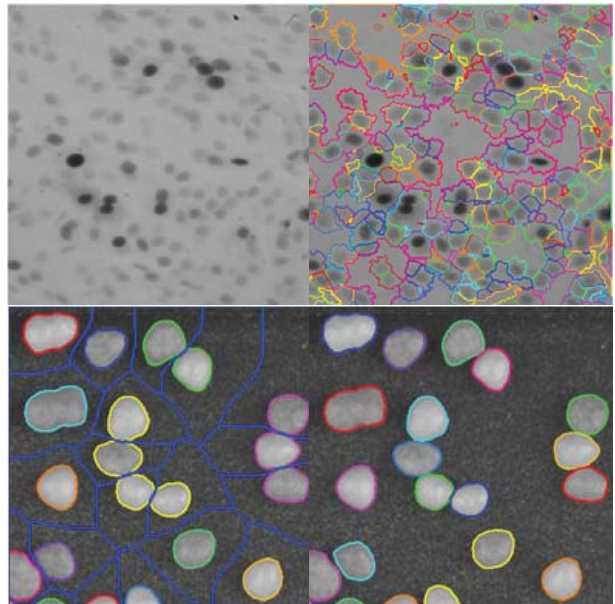
Automotive



Weld inspection system

Assembly monitoring
Code reading with quality rating
Detection of overmoulding, injection moulding errors, scratches, chippings, etc
and much more....

Pharmaceutical & Medical



Segmentation of cells/counting of particles

Position detections
Presence check and position monitoring
Material quality (absorbance, emission, scattering)
Process efficiency
and much more....