



**Take on Today's Packaging Challenges  
with Automated Inspection and ID**

**MICROSCAN®**



# Barcode and Machine Vision Solutions to Error-Proof Your Line

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Can you trust that the barcode on your packaging will be readable once it's in the supply chain? What happens if a wrong film roll is loaded onto your line? Have industry labeling and product serialization requirements been met?

These are challenges that packaging manufacturers (from food and beverage to consumer goods to pharmaceuticals and healthcare) face on a day-to-day basis. Mislabeled products, mismatched containers, inaccurate data, and unreadable print can result in recalled products, fines, legal implications, and unhappy consumers. The further an error makes it into the supply chain, the higher the costs for recovering it will be, so it is critical to monitor for errors at each stage of packaging operations.

Automated inspection and identification solutions from Microscan detect errors early in the process, and at every stage from label to carton to pallet, enabling corrective actions before products leave the factory and ensuring product traceability. With a complete product portfolio ranging from barcode readers and verifiers to machine vision systems, Microscan can help you meet today's packaging challenges.



# Perfect match every time?

Every container you fill on your line has a corresponding lid to accurately identify, package, and brand your product. But mistakes can happen. A wrong lid can be placed, or a wrong film entered into packaging equipment due to human error.



Errors can be avoided using barcode readers or machine vision smart cameras to match data from a barcode or OCR text on the lid to corresponding data on the tub or jar. Match labels, film, and lids to contents to ensure perfectly-packaged products. If you catch just one error before a product is shipped, the investment will pay for itself.

# Half empty or half full?

Either way, that's not a question you'd want your retailer or end customer to ask at the grocery store or at home. Each bottle should be filled to the correct level to ensure customer satisfaction.



You can check fill levels, inspect label and print quality, and verify cap alignment with an in-line inspection system using the precision imaging and image analysis on board a machine vision smart camera. This is a cost-effective way to ensure that each product meets your quality requirements, and any issues are addressed before they become problems.

# Appearances can be deceiving.

The barcode on your case may look fine, but can your customers read it? Even if your own scanner can read a printed code, you may be shipping packages with substandard code quality, and you could end up paying a fine for each unreadable code.



Direct printing to packaging is cost effective, but it can be challenging to produce consistently-readable barcodes due to varying substrate quality, motion, and low mark contrast. Monitor code quality, verify codes to ISO/IEC quality standards, and detect printer issues before problems arise with in-line 1D/2D barcode verification and validation solutions using machine vision software.

# Always read the fine print.

Expiration dates and other overprinted information on flexible packaging should always be legible. Unreadable date and lot codes can result in returned shipments, fines, or even a product recall.



Achieving consistent print quality can be a challenge on fast-moving printers and packaging lines. An in-line inspection solution is a reliable way to ensure consistent print quality, legibility, and data accuracy in time with production, stopping errors with greater precision than random sampling, and resulting in less waste and optimal cost savings.

# Think looks don't matter?

When it comes to product packaging, looks do matter. Cosmetic flaws including skewed labels, dents, and other imperfections are one of the top reasons products are left sitting on grocery shelves.



You can make sure every product leaves your facility in perfect condition with machine vision inspection and verification solutions. Catch errors before product is shipped and rest assured that your product will look its best on the store shelf.

With over 30 years of experience in auto ID and machine vision, Microscan's line of barcode readers, barcode verifiers, and machine vision systems is backed by one of the world's most robust patent portfolios and years of proven performance in the field. Our comprehensive catalog includes **laser scanners and imagers** for reading 1D or 2D codes on high-speed packaging lines; scalable **machine vision software** for powerful inspection that is easy to implement; **compact smart cameras** to fit any system or production line; and **print and barcode verifiers** to ensure compliant, efficient processes.

Error-proof your packaging line, improve process efficiency, and ensure supply chain traceability with barcode and machine vision technologies engineered to take on today's packaging challenges.



**Laser Scanners**



**2D Imagers**



**Smart Cameras  
& Vision Software**



**Verifiers & Print  
Inspection Systems**

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