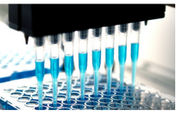
Lab Automation

Solutions for Life Sciences

MICROSCAN®

Machine Vision & Barcode Solutions for Lab Automation Applications

Lab automation system manufacturers require 100% data integrity and extremely reliable components that are small enough to fit into their systems. Whether reading specimen tubes, reagent containers, or microtiter plates, instrument manufacturers depend on the highest levels of performance and reading flexibility, with minimal integration effort.



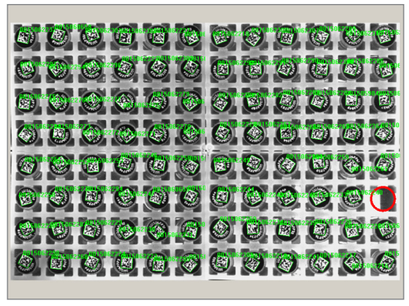
Experts in Lab Applications:

- High speed 1D/2D symbol reading
- Decoding of challenging, high density codes
- Compact sizes and wide fields of view
- Broad range of products
- Laser scanner and imager configurations
- Multiple resolutions, auto focus and other options
- High quality optics and specialized designs
- Long term product availability
- Extensive customization capabilities
- Worldwide presence and support
- 25+ years of life science solutions expertise

As the #1 global provider of embedded barcode scanners and imagers for lab automation, Microscan specializes in embedded identification and inspection applications, and designs custom products to meet our customers' stringent needs.

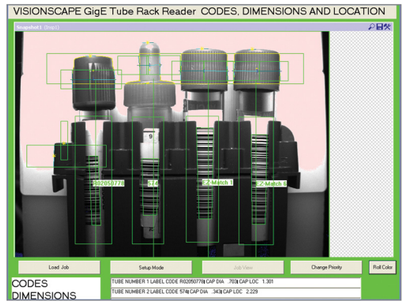
1D/2D Symbol Identification

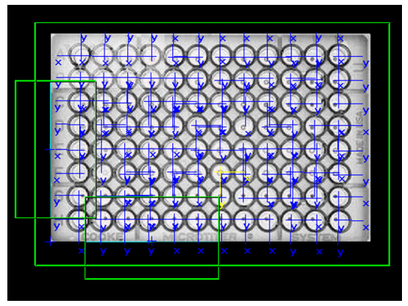
Read 1D/2D symbols or human readable text for automatic identification of sample tubes, microtiter plates and other labware.



Embedded Automated Inspection

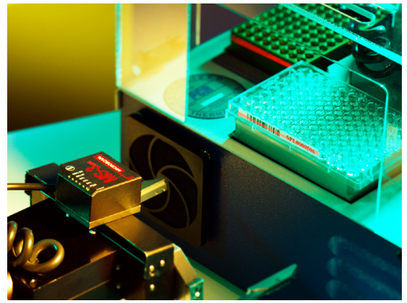
Vision processing for presence/absence detection of sample tubes, microtiter plates and other labware.

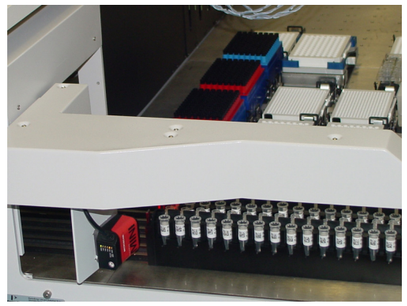


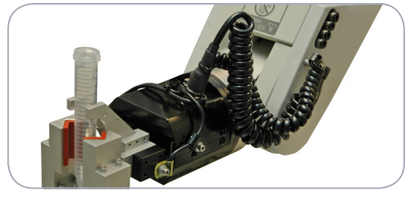


Easily Integrated

High performance products in compact form factors are easily embedded into lab automation instrumentation.







IDENTIFICATION

- High density 1D/2D symbol decoding
- Microtiter plate ID
- Data Matrix encoded vial ID
- Optical Character Recognition (OCR)
- Tube carrier ID
- 1D/2D symbol verification

INSPECTION & MEASUREMENT

- Microtiter plate orientation confirmation
- Color detection/confirmation
- Label inspection and print quality verification
- Calibrated dimensional measurements in real world units
- Sample presence/absence detection

ROBOTIC GUIDANCE

- Microtiter plate location for pick & place guidance
- Other object position/rotation detection

COMPANY & PRODUCTS

Microscan is a manufacturer and global technology leader for track, trace, and control solutions. Our barcode and machine vision products help companies around the world to drive down cost and waste, automate critical processes, and increase yields through precision data acquisition. As an ISO 9001 certified company recognized for quality leadership, Microscan is known and trusted by customers worldwide as a provider of quality, high precision products.

AUTO ID Barcode Readers & Verifiers

- Microscan offers fast, reliable barcode readers for all standard linear barcodes and 2D symbols. Features include small size, high speed reading, wide field of view, symbol reconstruction, and aggressive decoding technology.

Embedded Scan Engines and Readers

Handheld Imagers

Code 128

Code 39

Codabar

GS1 Databar

Data Matrix

Code 93

I2 of 5

PDF417

MACHINE VISION Software, Hardware & Lighting

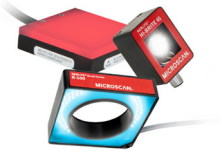
- Microscan holds one of the world's most robust patent portfolios for machine vision technology. Our products include machine vision software, smart cameras, and lighting for applications such as identification, inspection, and measurement.

Embedded Imagers

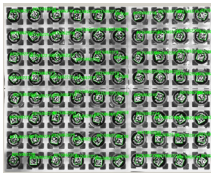
Vision Software

GigE Cameras

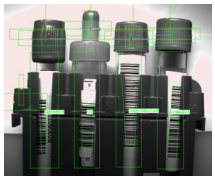
Embedded Smart Cameras



Lighting

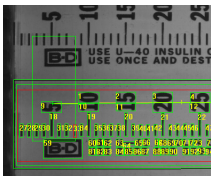


Data Matrix Coded Micro Tube Reading

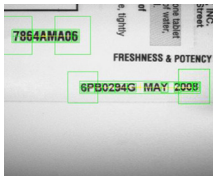


Cap Type Identification

Cap Color Detection



Optical Character Verification



Date and Lot Verification

MICROSCAN®

- United States
Corporate Headquarters
700 SW 39th St.
Renton, WA 98057
(T) 425-226-5700/800-251-7711
(F) 425-226-8250

- Europe
European Headquarters
Lemelerberg 17
NL-2402 ZN Alphen aan den Rijn
The Netherlands
(T) 31-172-4233-60
(F) 31-172-4233-66

- Singapore
Asia Pacific Headquarters
31 Kaki Bukit Road 3 #04-05/07
TechLink, Singapore 417818
(T) 65-6846-1214
(F) 65-6846-4641

©2014 Microscan Systems, Inc. ML027D 06/14