

# Optimizing Quality

## Driving Down Costs

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**COGNEX**

Cognex vision systems and sensors help companies improve their manufacturing quality and performance. Eliminating defects ... verifying assembly ... tracking and capturing information at every stage of production, to make sure the entire process is completed correctly. Smarter automation using Cognex vision means fewer production errors ... and that means lower manufacturing costs and higher customer satisfaction.

Cognex is the world's most trusted vision company. With over half a million systems installed in factories around the world, we have the experience and application knowledge to ensure that our vision system will do exactly the job you need ... time after time after time.



From quality checking to lot tracking, from assembly inspection to robot guidance — Cognex vision works tirelessly to optimize quality and drive down costs in many ways.



## COGNEX ... SOLUTIONS FOR ALL APPLICATIONS

Cognex® machine vision systems perform tasks that are difficult or impossible for people to do reliably and consistently — such as finding very small product defects on high-speed production lines, capturing and recording complex identification information, and guiding robots. Without Cognex vision systems, most products today could not be produced reliably and affordably on a large scale.



# Inspect any product

# COGNEX

### The Most Complete Product Line

You may need more than one type of vision product to tackle challenging tasks — but you don't want the complexity of dealing with multiple vendors, or the difficulty of integrating their technologies. What you need is a machine vision company that offers a complete line of products. And, again, that means Cognex. Only Cognex can support every vision need.



**Vision Systems**  
Rugged, all-in-one systems with an easy-to-use interface for configuring applications.



**Vision Software**  
A library of powerful Cognex vision tools to combine with the cameras, frame grabbers, and peripherals of your choice.



**Vision Sensors**  
Easy, affordable sensors that replace photoelectric sensors for more reliable inspection and part detection.



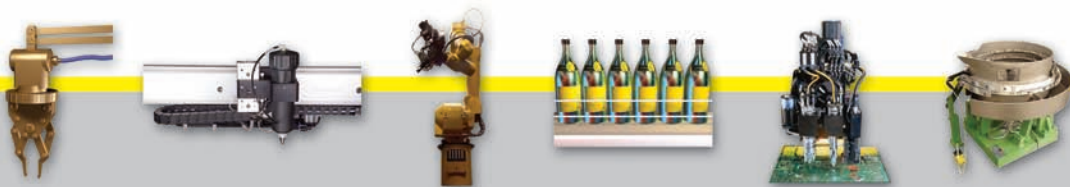
**ID Readers**  
1D and 2D code reading and verification for direct part mark or high-speed applications, in handheld or fixed-mount applications.



**Web and Surface Inspection**  
Industry-leading technology for detecting and classifying surface defects in metals, paper, plastics, non-wovens, and glass.

## MEETING INDUSTRIAL CHALLENGES

From watches, to wafers, to webs ... Cognex machine vision systems perform with the accuracy and speed needed to keep pace with even the fastest production lines. Since 1981, Cognex has provided successful vision solutions to companies around the world... it is the primary reason that manufacturers consistently select Cognex.



# Guide any automation

# vision does it

### Typical Industries and Applications

#### AUTOMOTIVE

- Detecting part presence
- Orienting parts on feeder bowls
- Reading codes on parts

#### SEMICONDUCTOR AND ELECTRONICS

- Inspecting the quality of wafers and dies
- Verifying the correct assembly of components
- Inspecting PC boards and reading codes

#### FOOD AND BEVERAGE

- Verifying the correct allergen label
- Reading and verifying 1D and 2D codes
- Detecting missing items

#### PACKAGING

- Inspecting cap and label presence and position
- Locating objects on conveyors
- Palletizing with automated systems

#### MEDICAL

- Verifying completeness of kits in operating room
- Providing surgical instrument traceability
- Gauging medical parts

#### PHARMACEUTICALS

- Verifying the presence of safety seals on bottles
- Verifying 1D, 2D, and date and lot codes
- Performing character verification on extremely distorted character strings

#### GENERAL MANUFACTURING

- Providing code reading for unit-level product traceability
- Performing automatic part recognition and inspection
- Sorting products by color

#### SOLAR

- Checking for cracks, holes, and similar defects on wafers
- Monitoring cell color uniformity and inspecting for defects
- Measuring features, inspecting and identifying modules and finished panels

#### PAPER, PLASTICS, NONWOVENS WEB INSPECTION

- Performing online, real-time web inspection
- Maximizing yield and ensuring quality
- Inspecting at every step in the process

#### METAL AND GLASS SURFACE INSPECTION

- Detecting, identifying, and visualizing defects
- Performing multi-step classification with patented technology
- Viewing real-time or stored images and data

## WE ARE EVERYWHERE YOU ARE

With globalization, outsourcing, and international joint ventures, more companies are manufacturing their products at locations throughout the world. That's why Cognex is everywhere our customers are.



# Identify any part

# ALL

### Putting Customers First

Customers are our number one priority, and listening to them is always the first step. Cognex sales engineers and application specialists are located around the world, to provide assistance wherever and whenever needed.

And there are other resources available to our customers — including the expert personal assistance of our partner system integrators (PSIs), who combine their vertical industry knowledge and technologies to complement Cognex products. They not only build the vision application, but also support it over time.

Our global network of automation solution providers (ASPs) comprises Cognex distributors that have the expertise and ability to offer the most affordable do-it-yourself vision solutions.



### An Array of Support Resources

Behind all of these vision professionals is a wealth of Cognex support resources, including live, online, and video-based training; online conferencing; software downloads; our searchable web knowledge base; and Cognex worldwide technical support. Visit us at [www.cognex.com](http://www.cognex.com).



Cognex has the widest global presence of any company in the industry, with offices in 20 countries throughout the Americas, Europe, and Asia. These Cognex resources, combined with our network of over 400 local distributors and partner system integrators, mean we are everywhere you are.

## **COGNEX** Companies around the world rely on Cognex vision to optimize quality and drive down costs.

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