

Advanced machine vision made easy

# **Barcode Readers Product Guide**

AI-Powered Readers Fixed-Mount and Handheld Readers Barcode Verifiers





# Advanced machine vision made easy

# The world's leading provider of vision systems, sensors, and software for automation

Cognex brings the power of vision to factory and warehouse automation of all kinds: detecting defects, monitoring production lines, guiding assembly robots, and tracking, sorting, and identifying parts. Our innovative technologies and focus on support throughout the customer journey make vision-based projects easier to set up, more effective, and more reliable.

Cognex machine vision solutions improve product quality and reduce costs at leading manufacturers and logistics providers worldwide, and our mature AI technology makes them more capable and easier to install, maintain, and operate.

Advancing automation is complicated enough already. We make it easier by providing industry-leading support that works the way customers want, from self-service resources to a global network of experts.

- >40 years in business
- 25K+ global customers

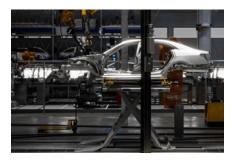
**500+** global customer support resources

>1,100 technology patents

DOGNEX

# **Automation for Every Industry**

Cognex machine vision and barcode reading solutions enable companies worldwide to reliably automate production tasks and track and trace assets across a wide range of industries and applications.



#### Automotive & EV

- Powertrain
- Tire and Wheel
- Safety Systems
- Chassis
- EV Battery
- Parts Traceability



#### **Consumer Products**

- Material Handling
- Automated Assembly
- Packaging Inspection
- Filling
- Labeling and Marketing
- Distribution



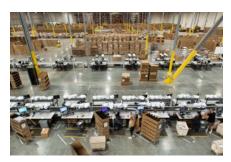
#### Electronics

- Semiconductors
- LED Manufacturing
- PCB Assembly
- Electronic Hardware
- Consumer Devices



#### Food & Beverage

- Product Quality Inspection
- Packaging Inspection
- Assembly Verification
- Allergen Management and Traceability
- Warehousing and Distribution



#### Logistics & Warehouse Operations

- Inbound Logistics
- Order Fulfillment
- Sortation
- Outbound Logistics



#### **Pharmaceutical & Medical**

- Medical Device Solutions
- Vials and Vaccines
- Tablet and Capsule Manufacturing
- Pharmaceuticals Protection
- Allergen Management and Traceability
- 21 CFR Part 11 Support

# **Barcode Readers and Verifiers**

Barcodes are essential for automating identification and data capture, requiring fast and accurate reading for maximum efficiency. Cognex image-based barcode readers decode even the toughest codes with industry-leading read rates, advanced technology, and modular options to optimize performance, increase throughput, and improve traceability.

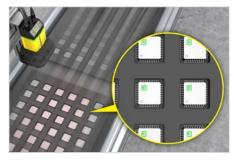
# **Application examples**



Automotive Direct part mark (DPM) reading: Read DPM codes on automotive parts



Food and beverage 1D code reading: Scan 1D codes on product packaging



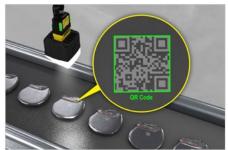
Electronics Multi-code reading: Decipher multiple codes at the same time



Logistics Label-based code reading: Scan and decode 1D barcodes on shipping labels



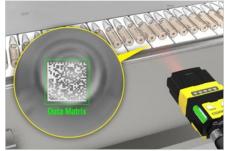
Packaging Multi-symbology reading: Decipher multiple code types at once



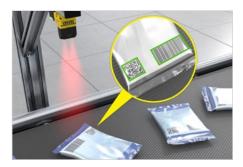
Pharmaceutical DPM reading: Read DPM codes on medical devices



Electric vehicle DPM reading: Scan DPM codes on curved surface of cylindrical batteries



Medical DPM reading: Decipher codes on the specular surface of glass vials



Consumer product Label-based code reading: Read codes on final product packaging

# Al-Powered Readers

# High-resolution reader

#### DataMan 390 Series

Tackle the most demanding decoding applications including multi-code and multi-symbology scanning.

cognex.com/dataman390

# All-purpose reader

#### DataMan® 290

Handle any code, application, or environment to solve a range of barcode scanning challenges.

cognex.com/dataman290

### Optimize your read rates with AI at every step



#### Al-enabled setup

**Position the code and find the right settings** for easy setup, and quickly locate barcodes for faster processing.



COGNEX



#### Al-enhanced decoding

**Increase image quality** and detect clocking patterns in damaged or low-quality codes for more reliable code reading.





### Al-powered analysis

**Read all code types,** including occluded, distorted, or challenging codes with industry-proven decoding algorithms.



# **Fixed-Mount and Handheld Readers**



**Ultra-compact reader** 

Automate traceability in confined spaces

with a compact form factor designed for

seamless factory integration.

DataMan 80

## Robust handheld reader

#### DataMan 8700 Series

Read the toughest DPM and label-based codes even in harsh environments.

cognex.com/dataman8700



### **Flexible reader**

#### DataMan 280

Scan a variety of codes with flexible performance for standard to customized needs.



### **High-speed reader**

#### DataMan 380

Automate scanning applications on high-speed lines, including multi-code and multi-symbology reading.



# For high throughput logistics applications

#### **Modular Vision Tunnels**

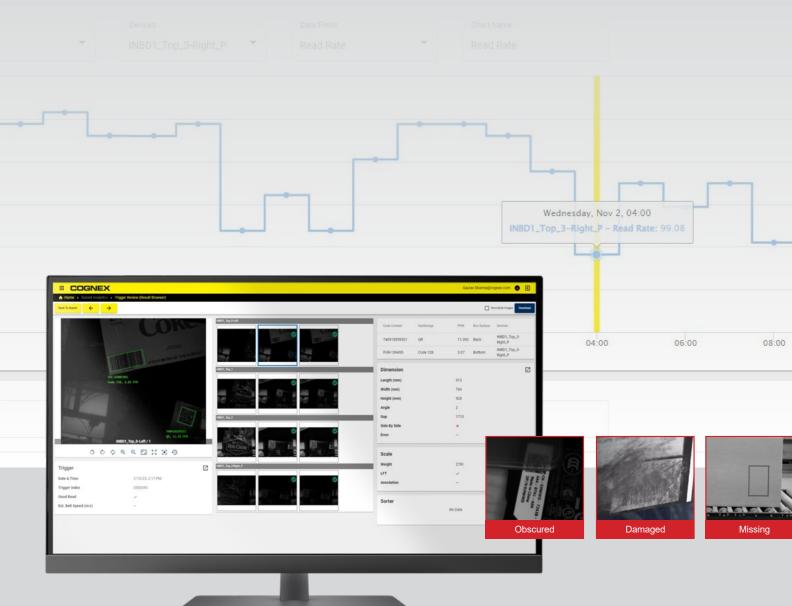
Cognex Modular Vision Tunnels (MVT) optimize sortation, inbound receiving, and outbound logistics with up to 99.9% read rates and flexible options to support different requirements.



### **Barcode verifiers**

Barcode verification grades the quality of barcodes to global standards. Cognex barcode verifiers ensure compliance and readability and provide detailed reports to address code quality issues.

#### cognex.com/barcode-verifiers



# Data intelligence for optimized performance

#### **Edge Intelligence**

The Cognex Edge Intelligence platform provides real-time visibility into production lines, with easy access to visualization and diagnostics tools to quickly identify and resolve issues. Fully integrated with select Cognex products and logistics tunnels, it streamlines device management and site-wide deployments.

#### cognex.com/edge-intelligence

# Empowering your success with end-to-end customer support

#### **Cognex Customer Success**

From personalized setup and training to expand your capabilities to continual learning and performance optimization, Cognex guides you at every step of your automation journey.

With Cognex Customer Success, you can focus on what matters most – delivering quality, innovation, and efficiency in your manufacturing process.

- Plan & Deploy
- Run & Support
- Expand & Optimize



### Plan & Deploy

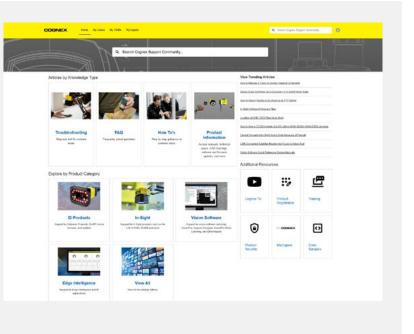
- Targeted guidance to choose the right products and validate your deployment
- Tuning and positioning guidance built in
- Curated documentation and videos for configuration and setup
- Image-based AI tools for easy model training
- Global partner network when you need expert help





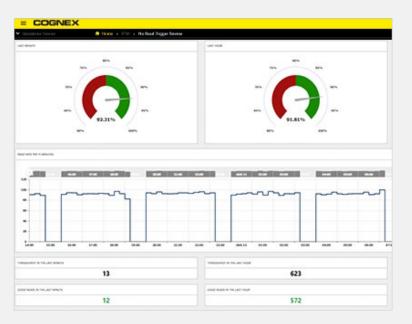
### **Run & Support**

- Connected tech support flows seamlessly across email, text, WhatsApp, phone, and chat
- Expert help and guidance via visual remote assistant and easy online scheduling
- Self-service training to take you from beginner to expert, in multiple languages
- Cognex support community provides answers, real-time status updates, and transparent case tracking
- Reliable, resilient products made to stay running consistently, tolerate harsh environments, and be easy to adjust if needed





- Broad portfolio of products with common tools and software, plus easy upgrade paths
- Pre-built dashboards that help you find performance insights across your entire operation
- Management tools to control settings across devices, lines, and plants
- Out-of-the-box data sharing makes it easy to connect to enterprise systems
- Coaching from experts with decades of experience to help you grow quickly and smoothly



# **Build Your Vision**

# **Vision Systems**

Advanced AI makes it easy to deploy vision systems for automating inspection tasks, from defect detection to assembly verification and text reading.

www.cognex.com/machine-vision



### **Barcode Readers**

Track and trace from the floor to dock door, with flexible readers and verifiers designed for ease of use and reliability.

www.cognex.com/barcodereaders



### **Industry Solutions**

Tackle complex applications across a wide range of industries with powerful machine vision solutions that simplify today's manufacturing and logistics challenges.

www.cognex.com/solutions





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solutions to optimize quality, drive down costs, and control traceability.

China India Japan Korea Singapore Taiwan

Other Asia-Pacific

Asia-Pacific

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