# COGNEX

# DATAMAN 8050 SERIES BARCODE READERS

## High speed 1D/2D handheld barcode reader

DataMan® 8050 barcode readers bring Cognex's patented algorithms to a new, lightweight industrial handheld platform. DataMan 8050 reads 1D and 2D barcodes with incredible speed every time even if damaged, smudged, scuffed or poorly marked.

## Modular design easily adapts to meet your needs

Field interchangeable communication modules allow one reader to be configured to meet specific communication needs to support RS-232, USB, and Ethernet options.

## Rugged industrial design

The DataMan 8050 barcode reader is constructed to handle the harshest environments. Other industrial features include: lanyard hook for easy retractor mounting, bright centralized aimer for clear targeting, loud beeper, and indicator lights.

## Proven performance

The DataMan 8050 readers are ideal for applications in any manufacturing environment that require robust barcode technology and reliable reading performance:

- Automotive body and assembly
- Incoming inspection
- Shipping
- Automotive kitting
- Electronics manufacturing
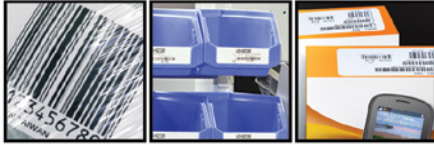- Aerospace
- Packaging
- Receiving

## High speed 1D/2D reading performance

- Cognex's patented algorithms, 1DMax® with Hotbars,® enable the DataMan 8050 barcode reader to decode the most challenging 1D barcodes quickly and easily, at more angles and in any orientation.
- Class-leading 2D algorithms read many 2D symbologies even when damaged, obstructed or with perspective distortion. Supported 2D symbologies include: Data Matrix, QR, PDF417, MaxiCode, and Aztec.
- Best-in-class reading performance means 8050 reads damaged, plastic-wrapped, direct inkjet, low-contrast, poorly printed, scraped, obstructed, uneven, torn, small, and smudged barcodes.

**To learn more about Cognex handheld barcode readers, visit www.cognex.com/handheld**

## Flexible and easy integration

- Intuitive quick setup allows the user to configure the communication and data formatting settings for many common applications.
- Custom setup sheets can be printed out from within the setup tool.
- DataMan setup tool software enables image viewing, complete suite of tools, Java scripting, PERL scripting and a variety of advanced data formatting options.

## ESD-Safe Handheld Barcode Readers

DataMan corded electrostatic discharge (ESD)-safe handheld barcode readers are designed with ESD protective housing to prevent costly damage to electronic parts and devices.

## SCAN CHART

| Type | Depth of Field |
|------|----------------|
| 7 mil 2D Code | Up to 40 mm |
| 10 mil 2D Code | Up to 80 mm |
| Code39 6 mil | Up to 90 mm |

## DATAMAN 8050 SERIES SPECIFICATIONS

| | |
|---|---|
| Dimensions | 210 mm x 115 mm x 85 mm |
| Weight | Corded: 0.615 lbs./279 g |
| Operating Temperature | 0 °C to 40 °C (32 °F to 104 °F) |
| Storage Temperature | -40 °C to 60 °C (-40 °F to 140 °F) |
| Maximum Humidity | 95% (non-condensing) |
| Material | Polycarbonate housing with overmold |
| Imager | 752 x 480 global shutter sensor |
| Aiming | Centralized green LED aimer |
| Status Outputs | LED and beeper |
| Communications | Serial module: RS-232, USB<br>Ethernet module (DataMan 8050E): TCP/IP, FTP, industrial protocols: Ethernet/IP, PROFINET, MC Protocol, ModBus TCP |
| Symbologies | 1D: UPC/EAN/JAN; Codabar, Interleaved 2 of 5, Code 39, Code 128, Code 93, GS1 Databar, PDF417, Micro PDF417, Postal Code<br>2D: Data Matrix, QR, MicroQR, Aztec, MaxiCode |
| Lighting | Integrated LED with near/far optics |
| Power Supply Requirements | 5 V–6 V DC, 2.5 W LPS or NEC Class 2 power supply |
| Protection | IP-65 |
| Environmental | Compliant with RoHS directive 2002/98/EEC |
| Regulatory | Electrical | CE, CSA, UL, 60950 |
| | EMI/RFI | FCC Part 15, CE (EMC and R&TTE Directives), ICES-003, RSS-210 Issue 8, KCC |
| ESD Standards Compliance | IEC 61340-5-1:2016 for select models only |
| Data Validation | US DoD UID guidelines, GS-1, ISO15434 and ISO15418 |
| Operating System | Microsoft® Windows® XP, Windows 7 and Windows 8 |

## Robovision
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