DataMan 8050 readers are equipped with Cognex’s world class barcode reading algorithms and designed to withstand harsh factory floor conditions. The best-in-class algorithms decode even the most challenging barcodes quickly and easily. And, the flexible modular design ensures the DataMan 8050 readers are ready to meet ever changing communication needs.

**High Speed 1-D/2-D Handheld Barcode Reader**
DataMan 8050 barcode readers bring Cognex’s patented algorithms to a new, lightweight industrial handheld platform. DataMan 8050 reads 1-D and 2-D barcodes with incredible speed every time even if it’s damaged, smudged, scuffed or poorly marked. And, at an economical price point.

**Modular Design Easily Adapts to Meet Your Needs**
With field interchangeable communication modules, one reader can be configured to meet specific communication needs. Available with both corded and wireless modules.

**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 provide operator feedback.

DataMan 8050 reads 1-D and 2-D barcodes with incredible speed every time even if it’s damaged, smudged, scuffed or poorly marked. And, at an economical price point.

**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
- Electronics manufacturing
- Incoming inspection
- Shipping
- Automotive kitting
- Aerospace
- Packaging
- Receiving

**High Speed 1-D/2-D Reading Performance**
- Cognex’s patented algorithms, 1DMax+ with HOTBARS™, enables the DataMan 8050 barcode reader to decode the most challenging 1-D barcodes quickly and easily, at more angles and in any orientation.
- Class-leading 2-D algorithms read many 2-D symbologies even when damaged, obstructed or with perspective distortion. Supported 2-D symbologies include: DataMatrix, 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.

Cognex® DataMan 8000 readers set the new performance standard when it comes to industrial barcode reading. These industry-leading readers introduced several firsts to industrial handheld scanner capabilities. To learn more about the DataMan 8050X, 8100 and 8500 handheld ID readers, visit [www.cognex.com/dataman](http://www.cognex.com/dataman).
Flexible and Easy Integration

• Intuitive Quick Setup Sheets: allow the user to configure the communication and data formatting settings for many common applications.
• Custom Setup Sheets can be printed out from within Setup Tool.
• DataMan Setup Tool Software: view images, complete suite of tools, Java Scripting, PERL Scripting and a variety of advanced data formatting options.

Specifications

Dimensions: 210 mm x 115 mm x 85 mm

Weight:
- Corded: 0.615 lbs./279 g
- Wireless: 0.728 lbs./330 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-CDC and USB-HID Keyboard Output
- Bluetooth Intelligent Base Station: RS-232, USB-CDC and USB-HID Keyboard Output

Symbologies:
- 1-D: UPC/EAN/JAN; Codabar, Interleaved 2 of 5, Code 39, Code 128, and Code 93, GS1 Databar, PDF417, Micro PDF417
- 2-D: Data Matrix, QR, MicroQR, Aztec, MaxiCode

Lighting: Integrated LED with near/far optics

Power Supply Requirements:
- 5V-6V DC, 2.5W LPS or NEC Class 2 power supply
- Intelligent Base Station: 24V DC

Environmental:
- Compliant with RoHS directive 2002/95/EC

Regulatory:
- Electrical: CE, CSA, UL, 60950
- EMI/RFI: FCC Part 15, CE (EMC and R&TTE Directives), ICES-003, R&S-210 Issue 8, KCC

Data Validation: US DoD UID Guidelines, GS-1, ISO15434 and ISO15418

Operating System: Microsoft® Windows® XP, Windows 7 and Windows 8

Scan Chart

<table>
<thead>
<tr>
<th>Type</th>
<th>Depth of Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 mil 2-D Code</td>
<td>Up to 40 mm</td>
</tr>
<tr>
<td>10 mil 2-D Code</td>
<td>Up to 80 mm</td>
</tr>
<tr>
<td>Code39 6 mil</td>
<td>Up to 90 mm</td>
</tr>
</tbody>
</table>