COGNEX

DATAMAN 8050
Handheld | 1-D/2-D Barcode Reading | Corded/Wireless | Industrial ID

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

Field interchangeable communication modules allow one reader to be configured to meet specific communication needs to support corded RS-232, USB, and Ethernet options, as well as cordless options including Bluetooth and Wi-Fi.

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 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.

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: 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.

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

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.

DATAMAN 8050 SERIES 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 Ethernet module (DataMan 8050E): TCP/IP, FTP, industrial protocols: Ethernet/IP, PROFINET, MC Protocol, ModBus TCP Intelligent base station: RS-232, USB, Ethernet, industrial protocols (optional) Bluetooth module communicates to intelligent base station Wi-Fi module communicates to intelligent Wi-Fi base station
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	5 V–6 V DC, 2.5 W LPS or NEC Class 2 power supply Intelligent base station: 24 V DC
Protection	IP-65
Environmental	Compliant with RoHS directive 2002/98/EEC
Regulatory Electrical EMI/RFI	CE, CSA, UL, 60950, FCC Part 15, CE (EMC and R&TTE Directives), ICES-003, RSS-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

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

COGNEX

Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

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