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COGNEX

DATAMAN 8050X/8050HDX

HANDHELD | DPM/2-D/1-D BARCODE READING | CORDED/WIRELESS | INDUSTRIAL ID

Advanced DPM/2-D/1-D handheld barcode reader

DataMan® 8050X/8050HDX barcode readers are equipped with world-class Cognex® barcode reading algorithms and designed to decode 2-D direct part mark codes (DPM) and difficult to read 1-D and 2-D label-based codes quickly and easily.

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

These readers are 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 that deliver operator feedback.

DataMan 8050X/8050HDX readers are engineered with advanced 2-D and 1-D algorithms. These rugged, industrial readers decode 2-D DPM, such as dot peen and laser marked codes, as well as challenging 1-D and 2-D barcodes quickly and easily.









DataMan 8050X/8050HDX readers are equipped with world-class Cognex barcode reading algorithms and designed to withstand industrial factory floor conditions. The best-in-class algorithms decode even the most challenging 1-D barcodes quickly and easily. The DataMan's flexible modular design ensures the readers are ready to meet ever-changing communication needs.

Proven performance

DataMan 8050X/8050HDX readers are ideal for applications in any manufacturing environment that requires robust DPM, 2-D, and 1-D barcode reading technology.





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

High speed DPM, 2-D and 1-D reading performance

- 2DMax® algorithms provide robust 2-D DPM decoding, on a variety of DPM codes such as dot peen, laser marked, and low contrast at a variety of angles.
- Supported 2-D symbologies include: Data Matrix, QR, PDF417, MaxiCode, and Aztec.
- Patented 1DMax+™ with Hotbars® algorithms enable these barcode readers to decode the most challenging 1-D barcodes quickly and easily, at more angles and in any orientation.
- Industry-leading reading performance means these DataMan readers decode: damaged, plastic wrapped, direct inkjet, low contrast, poorly printed, torn, and small barcodes.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 8050 and 8600 series 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.





SCAN CHART

Model	Type	Depth of Field
8050X	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
8050HDX	4 mil 2-D Code	Up to 55 mm
	5 mil 2-D Code	Up to 75 mm

DATAMAN 8050X 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: 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, Code 93, GS1 Databar, PDF417, Micro PDF417 2-D: Data Matrix, QR, MicroQR, Aztec, MaxiCode, DotCode
Lighting		Integrated LED with near/far optics
Power Supply Requirements		DataMan 8050X with serial/USB: 5 V–6 V DC, 2.5 W maximum LPS or NEC Class 2 power supply DataMan 8050X with Ethernet: PoE Class 2 power supply DataMan 8050X with Bluetooth: 3.7 V, 3100 mAh Li-ion battery DataMan intelligent base station: 24 V, 13 W maximum LPS or NEC Class 2 power supply
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
Data Validation		US DoD UID guidelines, GS-1, ISO15434 and ISO15418
Operating System		Microsoft® Windows® XP, Windows 7 and Windows 8

COGNEX Companies around the world rely on Cognex vision and ID to optimize quality, drive down costs and control traceability.

Corporate Headquarters One Vision Drive Natick, MA 01760 USA Tel: +1 508 650 3000 Fax: +1 508 650 3344

Americas
Americas +1 508 650 3000

Europe
Austria +49 721 6639 393
Belgium +31 403 05 00 43
France +33 1 4777 1551
Germany +49 721 6639 393
Hungary +36 1 501 0650
Ireland +0808 168 3001
Italy +39 02 6747 1200
Netherlands +31 403 05 00 43
Poland +48 71 776 07 52
Spain +34 93 445 67 78
Sweden +46 21 14 55 88
Switzerland +49 721 6639 393
Turkey +90 212 306 3120
United Kingdom +0808 168 3001

Asia
China +86 21 5050 9922
India +9120 4014 7840
Japan +81 3 5977 5400
Korea +82 2 539 9047
Singapore +65 632 55 700
Taiwan +886 3 578 0060

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