

DATAMAN 8050X/8050HDX BARCODE READERS

Handheld | DPM/2-D/1-D Barcode Reading | Corded/Wireless

➤ 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.



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.

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 readers, visit www.cognex.com/barcodereaders

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.

ESD-Safe Handheld Barcode Readers

DataMan 8050HD/8050HDX corded ESD-safe handheld barcode readers* are designed with electrostatic discharge (ESD) protective housing to prevent costly damage to electronic parts and devices.



SCAN CHART

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

*ESD protective housing available in select models only.

DATAMAN 8050X/8050HDX 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	
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*	
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 barcode reading solutions to optimize quality, drive down costs and control traceability.

Corporate Headquarters One Vision Drive Natick, MA 01760 USA

Regional Sales Offices

Americas

North America +1 844-999-2469
Brazil +55 (11) 2626 7301
Mexico +01 800 733 4116

Europe

Austria +49 721 958 8052
Belgium +32 289 370 75
France +33 1 7654 9318
Germany +49 721 958 8052

Hungary +36 30 605 5480
Ireland +44 121 29 65 163
Italy +39 02 3057 8196
Netherlands +31 207 941 398
Poland +48 717 121 086
Spain +34 93 299 28 14
Sweden +46 21 14 55 88
Switzerland +41 445 788 877
Turkey +90 216 900 1696
United Kingdom +44 121 29 65 163

Asia

China +86 21 6208 1133
India +9120 4014 7840
Japan +81 3 5977 5400
Korea +82 2 539 9980
Singapore +65 632 55 700
Taiwan +886 3 578 0060

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