

DATAMAN 8050X/HDX SERIES BARCODE READERS

Advanced DPM/2D/1D handheld barcode reader

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



Proven performance

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

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

High speed DPM, 2D and 1D reading performance

- 2DMax® with PowerGrid® algorithms provide robust 2D DPM decoding, on a variety of DPM codes such as dot peen, laser marked, and low contrast at a variety of angles.
- Supported 2D symbologies include: Data Matrix, QR, PDF417, MaxiCode, and Aztec.
- Patented 1DMax® with Hotbars® algorithms enable these barcode readers to decode the most challenging 1D 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.

To learn more about Cognex handheld 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 includes 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 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 2D Code	Up to 40 mm
	10 mil 2D Code	Up to 80 mm
	Code39 6 mil	Up to 90 mm
8050HD/HDX	4 mil 2D Code	Up to 55 mm
	5 mil 2D Code	Up to 75 mm

DATAMAN 8050X/HDX 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	1D: UPC/EAN/JAN; Codabar, Interleaved 2 of 5, Code 39, Code 128, Code 93, GS1 Databar, PDF417, Micro PDF417, Postal Code 2D: 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 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

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 +36 800 80291
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
Malaysia +6019 916 5532
Singapore +65 632 55 700
Taiwan +886 3 578 0060
Thailand +66 88 7978924
Vietnam +84 2444 583358

© Copyright 2019, Cognex Corporation. All information in this document is subject to change without notice. All Rights Reserved. Cognex, DataMan, 1DMax, 2DMax, PowerGrid, and Hotbars are registered trademarks of Cognex Corporation. All other trademarks are the property of their respective owners. Lit. No. DM8050X-DS-01-2019-EN

www.cognex.com