

- **Unmatched Code Reading Performance.** Powered by Cognex® patented 1DMax™ and 2DMax™ technology, the DataMan® 8000 series offers unmatched decoding performance.
- **Superior Reading Versatility.** Read codes at variable focal distances with integrated liquid lens technology—a first for industrial handheld readers.
- **Modular Communications.** Quick, easy, interchangeable communication design supports Industrial Ethernet, RS-232 and USB through both corded and cordless modules.



Cognex DataMan 8000 readers set the new performance standard when it comes to industrial code reading. These industry-leading readers introduce several firsts to industrial handheld scanner capabilities, including:

Liquid Lens Variable Focus Technology

The DataMan 8000 series is the first industrial handheld reader to offer integrated liquid lens technology. The adjustable focus of the liquid lens gives the maximum depth of field flexibility for an image-based handheld reader. This industrially proven technology enables a single reader to decode DPM marks close up, or large barcodes from a distance. Relative to other autofocus mechanisms, the liquid lens has extremely fast response times and is exceptionally durable with no moving parts.

Superior Code Reading

The DataMan 8000 series is powered by Cognex patented algorithms, 1DMax and 2DMax, that provide advanced decoding for reading virtually every type of code, every time, with unsurpassed read rates.

For 1-D barcodes, 1DMax is our best-in-class reading tool optimized for omnidirectional barcode reading that can handle extreme variations. For 2-D codes, 2DMax technology sets the industry standard for the most challenging Data Matrix DPM applications.

Industrial Ethernet

The DataMan 8000 series readers are the first to offer Industrial Ethernet communication capability in a handheld reader. Now, handheld readers can be integrated directly into the factory network for real-time product traceability with the Cognex Connect™ suite of industrial protocols including EtherNet/IP, PROFINET, MC Protocol and more. DataMan 8000 corded readers have a direct Ethernet connection while the cordless readers have Ethernet connectivity from the base station to the host.

Modular Communications

The DataMan 8000 handheld series is also the first to introduce interchangeable communication modules for RS-232/USB, Ethernet and wireless connectivity. This flexibility means that one standard reader can be deployed with a variety of possibilities so that initial reader installation can be modified to meet future requirements.

Models

The DataMan 8000 series is available in two models. Each model can be corded or cordless, with patented 1DMax and 2DMax algorithms, liquid lens technology and modular communication capabilities.

- **DataMan 8500.** The DataMan 8500 readers incorporate patented UltraLight® technology from Cognex for superior image formation on any DPM type and surface.
- **DataMan 8100.** These readers feature integrated bright field illumination ideal for applications that require superior code reading performance for well-printed 1-D and 2-D codes and well-marked DPM codes.

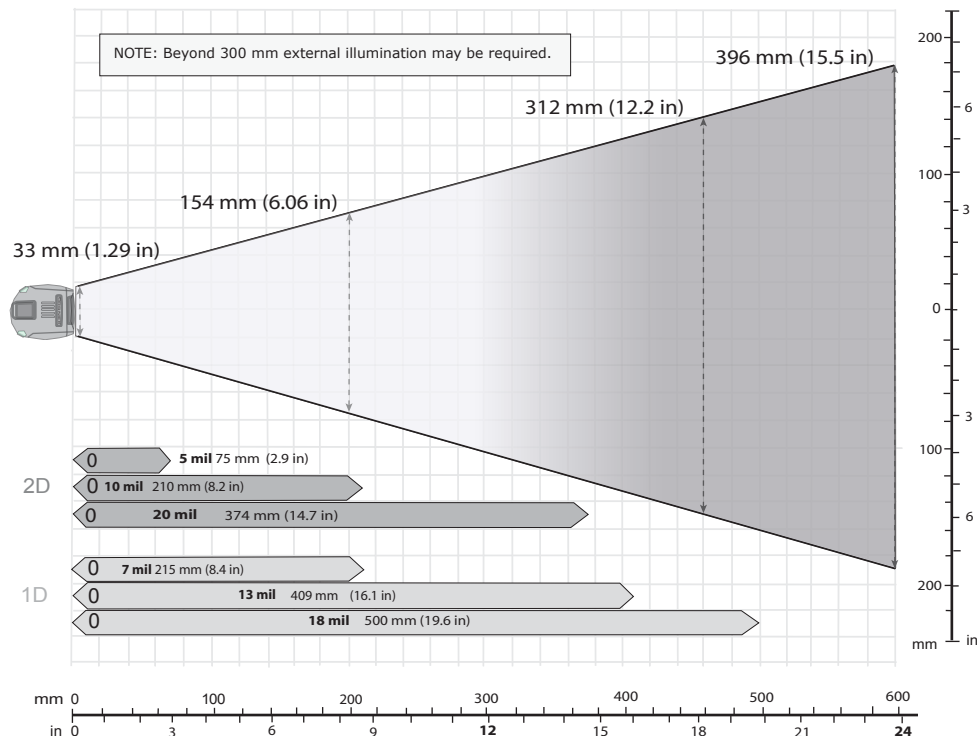
DataMan 8000 Series

Specifications

Dimensions	220 mm x 155 mm x 85 mm
Weight	326 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
Drop Resistance	50 drops from 2 m
Imager	1280 x 1024 High Resolution Sensor
Aiming	Laser Aimer, Class 2
Status Outputs	LED, Beeper and Vibration
Communications	Serial Module: RS-232, USB, PS/2 Ethernet Module: EtherNet/IP, PROFINET, MC Protocol, Modbus TCP, TCP/IP, FTP Intelligent Base Station: RS-232, USB, Ethernet (TCP/IP, FTP) (Point-to-Point Wireless: 802.11 b/g Channels 1-11)
Symbologies	1-D: UPC/EAN/JAN, Codabar, Interleaved 2 of 5, Code 39, Code 128, Code 93, Pharmacoce, POSTNET, PLANET Code, GS1 Databar, PDF417, Micro PDF417, IMB, Postal 2-D: Data Matrix, QR, MicroQR

Lighting	DataMan 8500: UltraLight integrated bright field, dark field, diffuse illumination DataMan 8100: Integrated bright field illumination
Optics	Variable focus liquid lens (0 to over 500 mm depending on code element size)
Power Supply Requirements	DataMan 8100 with Serial/USB: 5V - 6V DC, 2.5W maximum LPS or NEC Class 2 power supply DataMan 8500 with Serial/USB: 5V - 6V DC, 5.0W maximum LPS or NEC Class 2 power supply DataMan 8100/8500 with Ethernet: PoE Class 2 power supply Intelligent Base Station: 24V or PoE Class 3 power supply
Environmental	Compliant with RoHS directive 2002/98/EEC
Regulatory	Electrical: CE, CSA, UL 60950, EN/IEC 60950-1 EMI/RFI: FCC Part 15, CE, EN55022, EN55024, ICES-003, AS/NZS CISPR 22, Japan VCCI, MIC
Data Validation	US DoD UID Guidelines, GS1, ISO15434, ISO15418
Operating System	Microsoft® Windows® XP and Windows 7

Field of View and Reading Distances



Americas	
United States, East	+1 508 650 3000
United States, West	+1 650 969 8412
United States, South	+1 615 844 6158
United States, Detroit	+1 248 668 5100
United States, Chicago	+1 630 649 6300
Canada	+1 905 634 2726
Mexico	+52 81 5030 7258
Central America	+52 81 5030 7258
South America	+1 909 247 0445
Brazil	+55 47 8804 0140

Europe	
Austria	+43 1 23060 3430
Belgium	+32 2 8080 692
France	+33 1 4777 1550
Germany	+49 721 6639 0
Hungary	+36 1 501 0650
Ireland	+353 1 825 4420
Italy	+39 02 6747 1200
Netherlands	+31 208 080 377
Spain	+34 93 445 67 78
Sweden	+46 21 14 55 88
Switzerland	+41 71 313 06 05
United Kingdom	+44 1327 856 040

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Korea	+82 2 539 9047
Singapore	+65 632 55 700
Taiwan	+886 3 578 0060

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