



DATAMAN 8700DX

HANDHELD BARCODE READER

Cutting-edge performance
for the toughest codes

COGNEX

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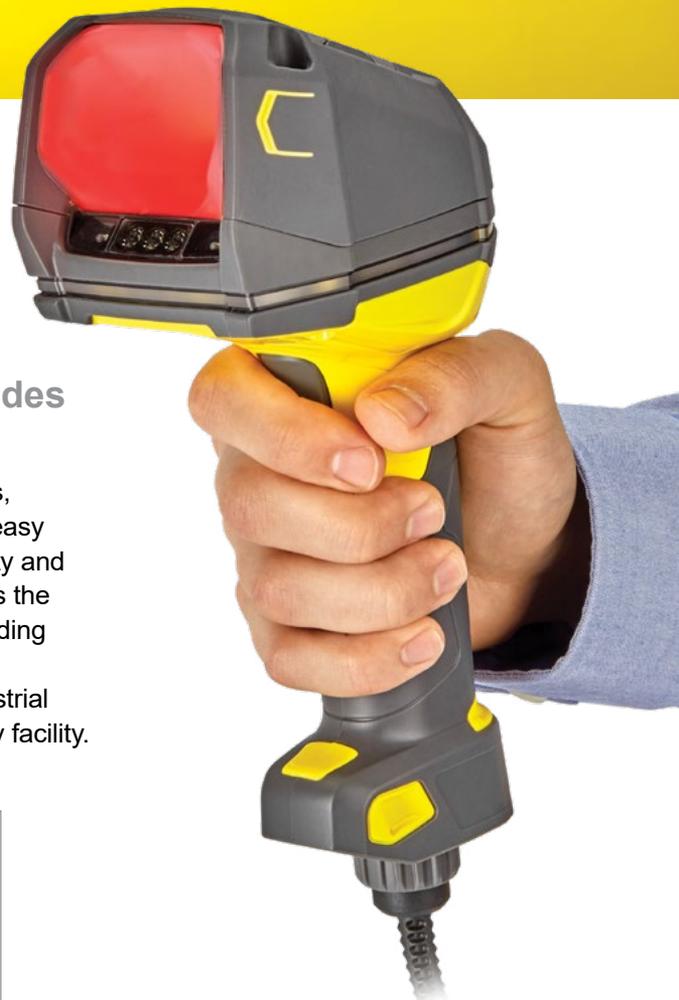
Cutting-edge performance for the toughest codes

Manufacturing environments in automotive, medical device, electronics, aerospace, and other industries require rugged, high performing, and easy to use barcode reading technology to ensure top component traceability and productivity. The DataMan® 8700DX handheld barcode reader decodes the toughest direct part mark (DPM) and label-based codes while withstanding harsh oils, dirt, and water. A built-in display screen enables quick setup and operator feedback, and the reader supports a broad range of industrial protocols and communications to connect and operate efficiently in any facility.

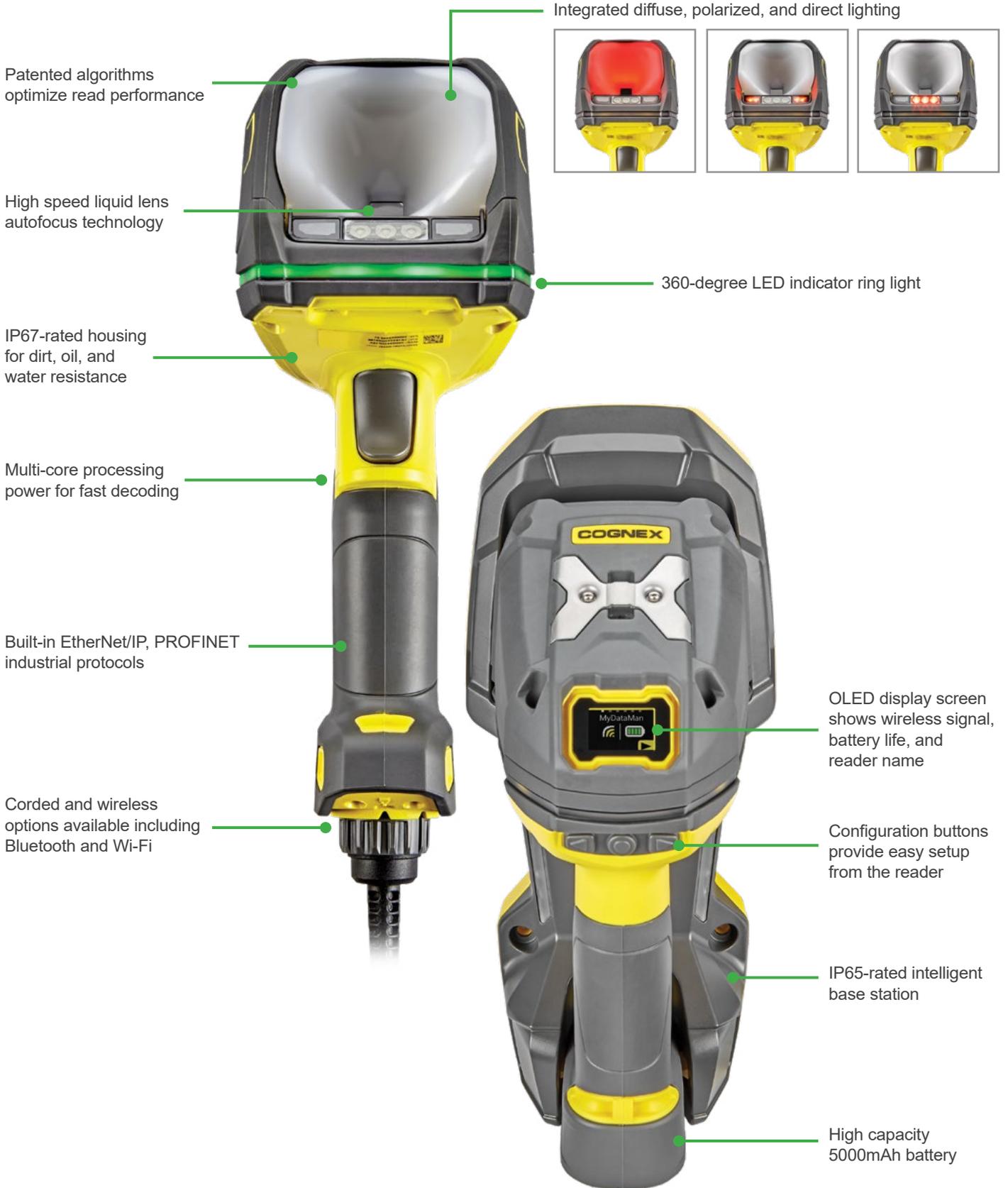
- Oil and water resistant
- High capacity battery
- Patented decoding algorithms
- Advanced integrated lighting
- Fast response times

Oil- and water-resistant housing

In the past, oils and fluids surrounding the application site have quickly damaged barcode scanners, but the DataMan 8700DX is built to last in the harshest environments. It has IP67-rated housing and meets the ISO 16750-5 oil specification for oil resistance. It is submersible in one meter of water without causing damage and withstands 50 drops from 2.5 meters onto concrete.



Rugged design with innovative technology



Premium read performance in milliseconds

DataMan 8700DX is equipped with the latest patented decoding algorithms, HDR technology, integrated lighting, high speed liquid lens, and a multi-core processor to read codes in under 150 milliseconds.



1DMax



Hotbars

1DMax® with Hotbars® is an algorithm and technology optimized for omnidirectional 1D barcode reading, decoding up to 10X the speed of a conventional barcode reader.

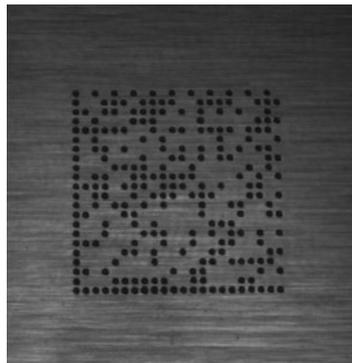
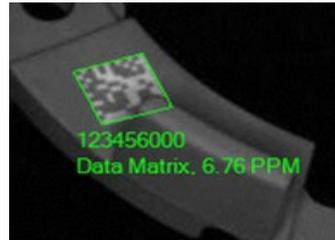


2DMax

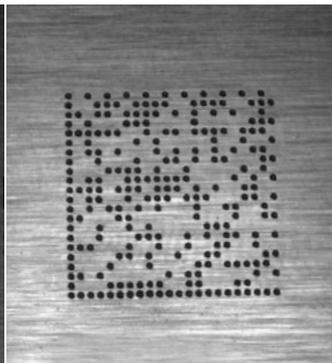


PowerGrid

2DMax® with PowerGrid® is a breakthrough algorithm and technology designed to read 2D codes with significant damage to or complete elimination of a code's finder or clocking pattern, or quiet zone.



No HDR



With HDR



HDR

High Dynamic Range (HDR) imaging uses the latest CMOS image sensor technology to acquire single images that are significantly more detailed than conventional sensors. HDR takes advantage of the extra available image data to:

- Enhance image quality and contrast
- Show more detail in the image
- Capture features that were not visible before
- Increase depth of field
- Reduce light intensity

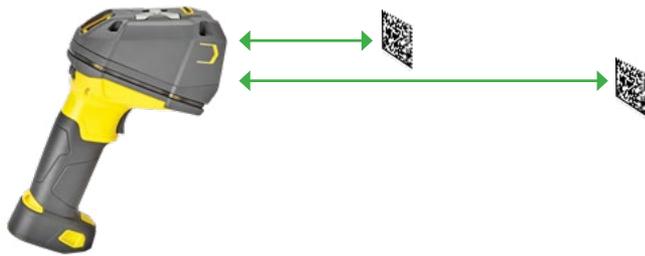
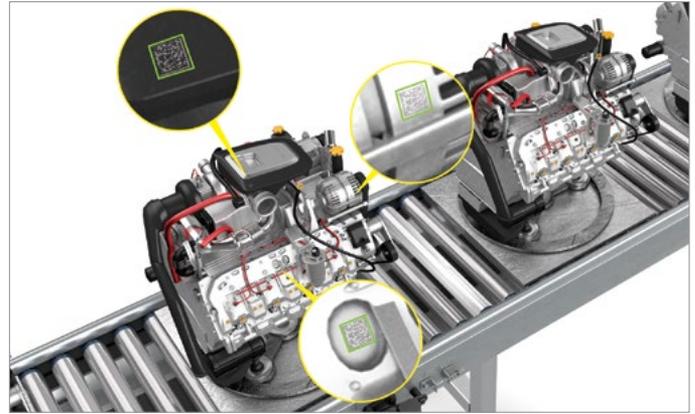


High speed multi-core processor provides ultra-high speed decode response times, enabling operators to scan codes faster.





Integrated **diffuse, polarized, and direct lighting** enables superior image formation to read dot peen, laser-etched, and label-based codes on challenging (shiny, cylindrical, dark) surfaces without any hot spots.

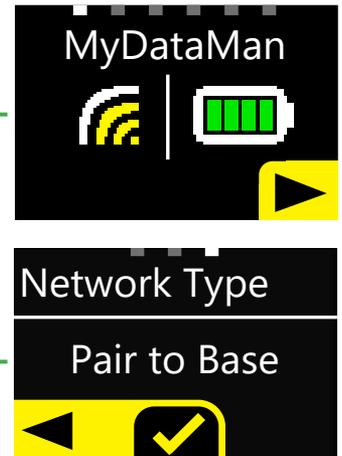


High speed liquid lens (autofocus) technology automatically adapts to changes in working distances without any reconfiguration or wait time to focus. It enables greater depth of field range without compromising optical quality to read codes faster and easier at distances near and far.

Easy setup

DataMan 8700DX provides a first-of-its-kind OLED display screen to make setup easy and to give operators quick and intuitive feedback without connecting to a PC.

- Setup the reader using the configurator buttons below the screen
- Name the reader so it's easy to know which station it belongs to
- View the wireless signal strength to ensure the reader is within range
- Monitor battery life so the reader doesn't power down mid-shift
- Review code data to ensure a successful read



Expanded communications

Integrated industrial protocols enable DataMan 8700DX to easily connect to PLCs and factory networks. The DataMan 8700DX supports more communication options than ever before including Wi-Fi 5GHz and 2.4 GHz, Bluetooth 4.2, and a corded option. It allows for a direct connection to computers, tablets, and phones.



DataMan 8700DX offers cutting-edge performance, robustness, and ease-of-use to improve part traceability and improve factory efficiency and productivity. To learn more, visit cognex.com/dataman-8700.

SPECIFICATIONS

Algorithms	1DMax, 2DMax, Hotbars, PowerGrid
Resolution	1.6MP
Lens	8mm lens with liquid lens
Aimer	On-axis green LED aimer
Status Outputs	OLED display, LED ring light, beeper, vibration
Communications	Serial: RS-232 and USB Ethernet: TCP/IP, FTP, industrial protocols: EtherNet/IP, PROFINET, MC protocol, Modbus TCP Intelligent base station: RS-232, USB, Ethernet, industrial protocols Bluetooth communicates to intelligent Bluetooth base station or directly to PC/phone/tablet Wi-Fi (2.4GHz & 5GHz) communicates to intelligent Wi-Fi base station or infrastructure mode to a wireless router
Lighting	Diffuse, polarized, direct
Symbologies	1D: UPC/EAN/JAN, Codabar, Interleaved 2 of 5, Code 39, Code 128, Code 93, POSTNET, PLANET Code, IMB, Postal 2D: Data Matrix, QR, MicroQR, PDF417, MaxiCode, Aztec
Dimensions	Wireless: 221mm (H) x 112.5mm (L) Corded: 241mm (H) x 112.5mm (L)
Weight	Wireless weight: 530 g (battery included) Corded weight: 450 g (+ approx. 130 g for cables)
Operating Temperature	0°C–40°C (32°F–104°F)
Storage Temperature	-40°C–60°C (-40°F–140°F)
Maximum Humidity	95% (non-condensing)
Power Supply Requirements	DataMan 8700 with serial/USB: 5.5 V DC, 6.0 W maximum LPS or NEC Class 2 power supply DataMan 8700 with Ethernet: PoE Class 2 power supply DataMan 8700 with Bluetooth: 3.7 V, 5000 mAh Li-ion battery DataMan Intelligent Base Station: 5.5 V DC, 6 W maximum LPS or NEC Class 2 power supply or PoE Class 2 power supply
Wireless Unit Scans per Full Charge	125,000+
Protection	Handheld reader: IP67; Base station: IP65
Drop Test	Multiple drops from 2.5 meters
Environmental	Compliant with latest EU RoHS and China RoHS
Regulatory	EU: CE EMC & RED USA/Canada: cTUVus IEC 61010-1, part 15B, ICES 03 Korea: KCC
Data Validation	US DoD UID guidelines, GS-1, ISO15434 and ISO15418
Operating System	Windows 7 and Windows 10

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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