COGNEX

PRODUCT GUIDE

DATAMAN 500

DataMan 500

The DataMan 500 combines the benefits of image-based readers with the ease-of-use of today's laser scanners and includes the following features:

High read rates

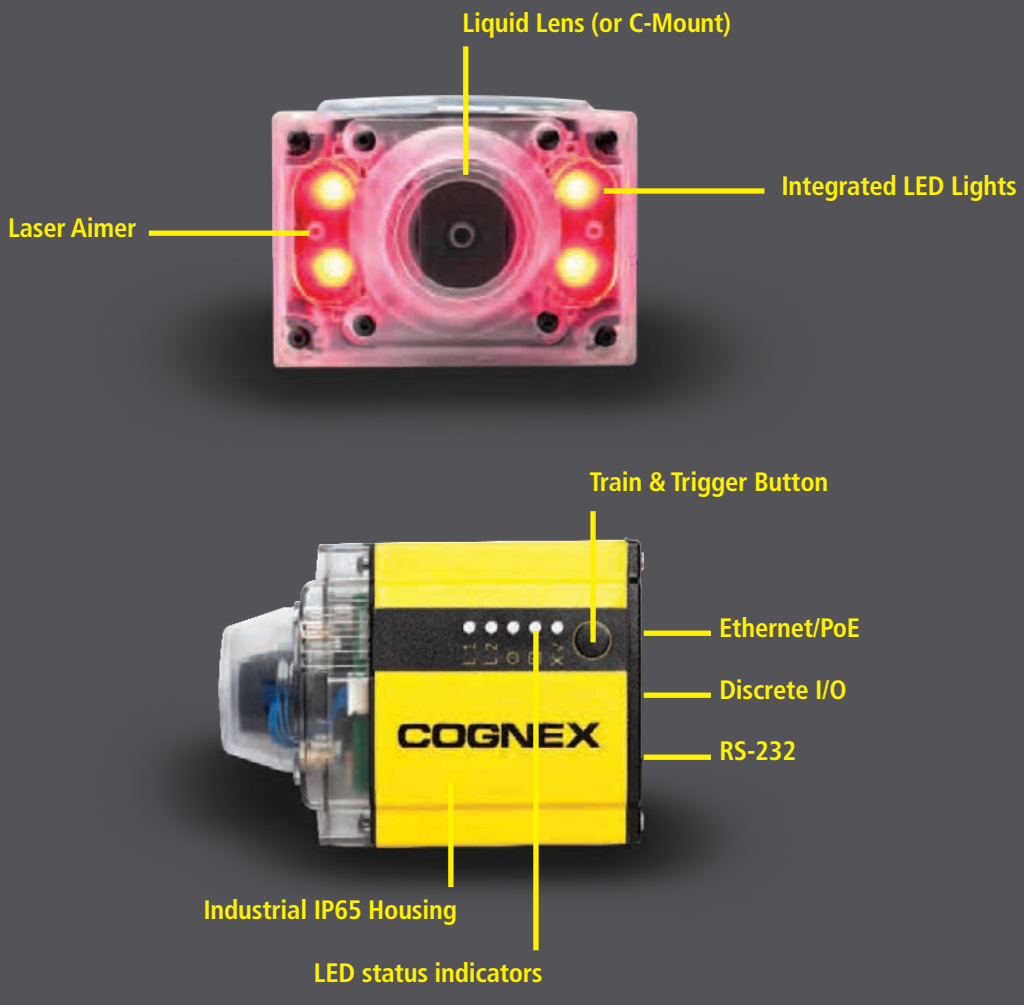
- Image acquisition rates of up to 1,000 frames/second
- Read the 1D and 2D barcodes that laser scanners cannot with IDMax® code reading technology

User visualization

- See what the reader sees
- Review live images now or later with automatic FTP image transfer
- Easily diagnose "no-reads" allowing for quick corrections on the line

Reliability

- No moving parts, providing a longer product life!



Unmatched Read Rates for Logistics and More...

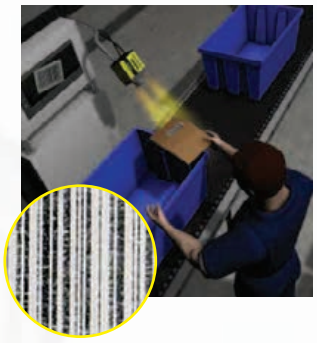
DataMan 500 is used for code reading, tracking and sorting in a variety of industries and is the first image-based reader to be able to successfully accomplish logistics applications that were traditionally dominated by laser scanners. DataMan 500 is ideal for many retail and parcel distribution, postal and logistics applications, such as:

Tote ID & Sorting
DataMan 500 reads barcodes on totes quickly and accurately.

Side Scanning
DataMan 500 can be set up to read codes in print and apply or other side scanning applications.

Carton Coding
With the patented code reading technology, IDMax, DataMan 500 can easily read codes on virtually any surface.

Top Side Sorting
DataMan 500 reads barcodes on fast moving ship sorter applications.



Presentation Scanning
DataMan 500 can be setup for presentation scanning stations.

For the past 30 years, Cognex has offered Automatic Identification (Auto ID) to a variety of industries. DataMan 500 expands on the capabilities of the existing DataMan product family for many factory automation applications, including:

Code Reading on Packages
DataMan 500 reads codes on virtually any surface—from plastic to glass to corrugated material.

Pharmaceutical Traceability
DataMan 500 reads a variety of codes, including Pharmacodes, for easy traceability.

Automotive Traceability
DataMan 500 is optimized for DPM code reading applications and can read both 1D and 2D codes.

Code Reading on PCBs for Electronics
DataMan 500 can read small to large 1D and 2D codes, at the same time!

The Revolutionary Technology of DataMan 500

Proprietary Imaging Technology

The DataMan 500 Series is the first barcode reader based on patented vision chip technology from Cognex. This technology allows DataMan 500 to reliably read ID barcodes on packages moving at speeds up to 500 feet per minute (2.5 m/s) without an external trigger or complicated set up procedure. Just mount DataMan 500 and begin reading!

Liquid Lens Technology

DataMan 500 is the first barcode reader for the logistics industry to introduce liquid lens autofocus technology. The automatic adjusting focus of the liquid lens provides the maximum depth of field for even the highest speed applications. This optional accessory for DataMan 500 is fast and reliable and offers good optical quality with low power consumption.

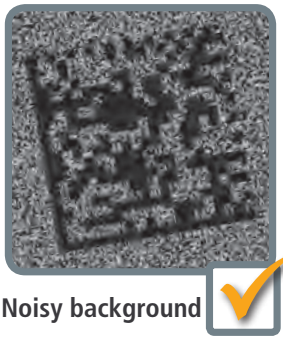
IDMax Code Reading

DataMan 500 features IDMax®, which offers the most advanced decoding available for reading virtually every type of code, every time. Now, users can easily read badly printed codes, damaged codes, distorted codes, codes with low height, blurred codes, scratched codes… even 2D Data Matrix and QR codes.


Washed out


Badly printed


Warped labels


Noisy background


Blurring


Extreme perspective


Scratched


Uneven lighting

No Moving Parts

DataMan 500 has a longer product life than a laser scanner because it was designed with no moving parts.

High-speed Ethernet Communications

DataMan 500 is powered over Ethernet (PoE) and doesn't require a separate power supply or communication line. DataMan 500 also supports RS-232 for integration into legacy systems.

Specifications

DataMan 500

	DataMan 500X	DataMan 500QL
1D Codes[1]	Yes	Yes
2D Codes[2]	Yes	No
Composite Symbology[3]	Yes	Yes
Image Sensor	1024 x 768 global shutter	1024 x 768 global shutter
Acquisition	Max 1000 fps	Max 1000 fps
Decode Rate	Max 90/sec	Max 90/sec
Lens Type	CS-mount	CS-mount
Auto Focus	Optional Liquid Lens	Optional Liquid Lens
Trigger	Manual; External: Single, Burst & Continuous; Internal: Self & Presentation	Manual; External: Single, Burst & Continuous; Internal: Self & Presentation
Aimer	Dual Laser (CDRH/IEC Class II)	Dual Laser (CDRH/IEC Class II)
Discrete Inputs	4 Opto-isolated	4 Opto-isolated
Discrete Outputs	4 Opto-isolated	4 Opto-isolated
Status Outputs	Beeper and 5 multifunctional LEDs	Beeper and 5 multifunctional LEDs
Lighting	Integrated bright field	Integrated bright field
Communications	Ethernet and RS-232	Ethernet and RS-232
Power	36VDC to 57VDC(PoE)	36VDC to 57VDC(PoE)
Power Consumption[4]	270 mA @ 48 VDC	270 mA @ 48 VDC
Material	Aluminum housing	Aluminum housing
Weight	350 grams	350 grams
Dimensions	106mm x 70mm x 52mm	106mm x 70mm x 52mm
Operating Temperature	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage Temperature	-10°C to 60°C (14°F to 140°F)	-10°C to 60°C (14°F to 140°F)
Operating and Storage Humidity	0% to 95%, non-condensing	0% to 95%, non-condensing
Protection	IP65	IP65
RoHS Certified	Yes	Yes
Approvals	CE, FCC, and C-Tick (UL and KCC pending)	CE, FCC, and C-Tick (UL and KCC pending)
Operating System	Windows® 7 and Windows XP®	Windows® 7 and Windows XP®

Notes:
1) UPC/EAN/JAN, Codabar, Interleaved 2 of 5, Code 39, Code 128, and Code 93, PostNet, Planet Code, Australia 4-State, Japan 4-State, UPU 4- State, Intelligent Mail Bar Code, Pharma Code, GS1 DataBar
2) Data Matrix, QR Code and microQR Code
3) (CC-A, CC-B), PDF417, MicroPDF
4) Class 3 PoE supply required

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