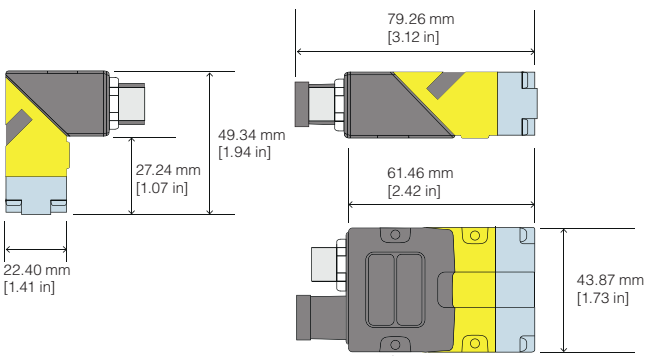
COGNEX

DATAMAN 150/152/260/262 SERIES BARCODE READERS

DataMan® 150/152/260/262 series fixed-mount, image-based ID readers are designed for zone routing, tote scanning, and other short- or medium-distance applications at belt speeds up to 300 ft/min. For 1-D oriented barcodes, 1-D omnidirectional barcodes, and printed higher-density 2-D matrix codes, these readers deliver unprecedented performance, flexibility, and ease of use.

The serial USB-based DataMan 150/152 series and Ethernet-based 260/262 series models deliver unprecedented performance, flexibility, and ease-of-use.



Features at-a-glance

- Best-in-class read rates
- No moving parts
- Easy to install and use
- Performance feedback

Highest read rates

DataMan 150/152/260/262 series fixed-mount barcode readers achieve the highest possible read rates thanks to a high-speed, powerful platform that runs the latest Cognex algorithms.

1DMax® with Hotbars II™ technology decodes damaged or poorly printed 1-D barcodes as small as 0.8 pixels per module (PPM). 2DMax® provides reliable 2-D code reading independent of code quality, printing method, or the surface that the codes are marked on, and with patent-pending PowerGrid™ technology, can locate and read 2-D codes that exhibit significant damage to or complete elimination of the finder pattern, clocking pattern, or quiet zone.

1DMax with Hotbars II technology deliver high-speed reading of damaged or poorly printed 1-D barcodes as small as 0.8 pixels per module (ppm).

2DMax with PowerGrid technology provides reliable reading of challenging 2-D codes, including previously unreadable 2-D codes without visible perimeters, even when the codes exhibit significant damage to or complete elimination of the finder pattern, clocking pattern, and quiet zone.

Simplify installation in tight spaces

DataMan 150/152/260/262 series models offer straight or right-angled configurations to fit into the tightest spaces. In-line and ninety degree configurations eliminate the need for equipment redesign, and complicated optical paths with mirrors.

Future proof your investment

Unlike laser scanners, the DataMan 150/260 series can read 2-D codes. With increasing adoption of these high data density codes, it is important to protect your investment by purchasing image-based readers so your system is prepared for evolving barcode reading requirements.

No moving parts

DataMan 150/152/260/262 series are image-based readers that use solid-state technology. There are no laser or raster components that will wear out and break resulting in significantly longer mean time between failures (MTBF) as compared to laser scanners.

Plug-n-Play

DataMan 150/260 series readers easily replace single-line laser scanners and are installed in three simple steps:

1. Mount the reader in the correct location.

2. Connect to power, communication and I/O.

3. Load the settings for your application.

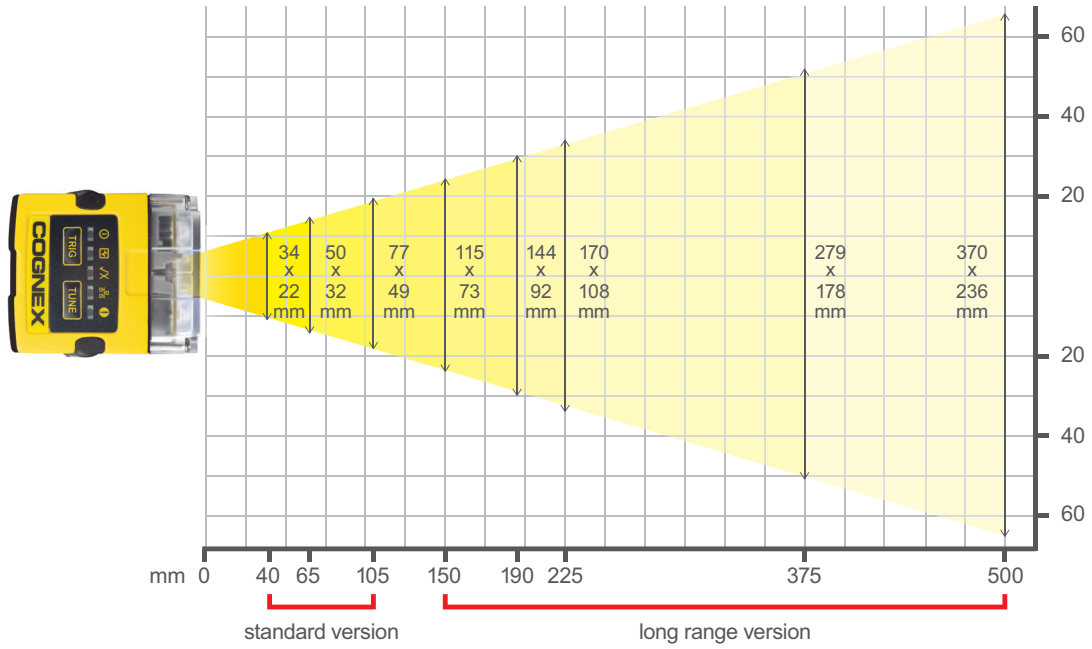
DataMan 150/260 series readers are fully assembled and pre-focused at the factory, making them ready-to-use right out of the box.

Performance feedback

DataMan 150/152/260/262 readers can be used with Cognex Explorer™ Real-Time Monitoring ("CE RTM") to gather valuable data on reader and system performance. CE RTM will automatically collect and categorize information about read failures from every reader to which it is connected. By analyzing data trends, it is possible to identify weaknesses in upstream processes to help improve overall process performance.

COGNEX EXPLORER

Field of view and reading distances



Reading distances

	@40	@65	@105	@150	@190	@225	@375	@500
1D	30 mil 45–90 mm * 15 mil 45–70 mm 6 mil 28–51 mm	30 mil 45–70 mm * 15 mil 45–103 mm * 6 mil 45–82 mm	30 mil 45–225 mm * 15 mil 45–170mm * 6 mil 70–120 mm	30 mil 100–395 mm 15 mil 55–270 mm 6 mil 105–150 mm	30 mil 100–525 mm 15 mil 125–430 mm	30 mil 100–780 mm 15 mil 82–455 mm	30 mil 100–825 mm 15 mil 130–435 mm	30 mil 100–830 mm
2D	30 mil 25–95 mm 15 mil 20–70 mm 10 mil 25–60 mm 5 mil 40–50 mm	30 mil 25–160 mm 15 mil 35–120 mm 10 mil 45–100 mm	30 mil 25–265 mm 15 mil 55–200mm 10 mil 75–160 mm	30 mil 30–280 mm 15 mil 70–190 mm 10 mil 105–120 mm	30 mil 30–383 mm 15 mil 108–190 mm	30 mil 30–395 mm 15 mil 130–195 mm	30 mil 30–410 mm	

* Minimum distance limited by code size

L Models

Best-in-class 1D barcode reading using the 1DMax with Hotbars® and Hotbars II. May be used to read 1D codes in either ladder or picket-fence orientation.L models are field-upgradable to either QL or X models.

QL Models

Best-in-class 1-D omni-directional barcode reading using 1DMax with Hotbars and Hotbars II. QL models are field upgradeable to the X model.

X Models

Industry-leading code reading for applications that require reading challenging 1-D and 2-D codes, including Direct Part Mark (DPM) codes. X Models can also include patent pending PowerGrid technology to read codes without visible perimeters.

SPECIFICATIONS

	150 L	150 QL	150 X	152 L	152 QL	152 X	260 L	260 QL	260 X	262 L	262 QL	262 X
1-D and Stacked Codes	•	•	•	•	•	•	•	•	•	•	•	•
Omnidirectional 1-D Codes		•	•		•	•		•	•		•	•
Oriented 1-D Codes	•	•	•	•	•	•	•	•	•	•	•	•
2-D Codes			•			•			•			•
Algorithms	1DMax	1DMax	1DMax 2DMax*	1DMax	1DMax	1DMax 2DMax*	1DMax	1DMax	1DMax 2DMax*	1DMax	1DMax	1DMax 2DMax*
Image Resolution	752 x 480 global shutter			1280 x 960 global shutter			752 x 480 global shutter			1280 x 960 global shutter		
Image Sensor	1/3“ CMOS			1/3“CMOS			1/3“CMOS			1/3“CMOS		
Acquisition	60 fps			45 fps			60 fps			45 fps		
Max Decode Rate	45 decodes/second			45 decodes/second			45 decodes/second			45 decodes/second		
Lens Options	Custom-configured options to meet your application requirements											
Trigger and Tune Buttons	Yes. Quick setup intelligent tuning											
Aimer	2 green aimer LEDs											
Discrete Inputs	2 opto-isolated						2 opto-isolated					
Discrete Outputs	2 opto-isolated						4 opto-isolated					
Status Outputs	5 status LEDs and beeper											
Lighting	Modular/field configurable lighting: 4 Independently Controled, high-power LEDs (red, white, blue, IR) Band-pass filters & polarizing filter available											
Power	5–26 VDC, 2.5 W (USB bus power option) DB-15 pig tail cable, pin compatible to DM100						Two models with 24 V +/- 10% or PoE (Power over Ethernet)					
Power Consumption	<2.5 W (USB)						<3.0 W (PoE or external power)					
Communication	RS-232 and USB Interface						RS-232 and Ethernet Interface					
Material	Aluminum											
Weight	128 g						142 g					
Dimensions	Straight - 43.1 mm x 22.4 mm x 55(63) mm Right-Angle - 43.1 mm x 28.8(35.8) x 49.3 mm						Straight - 43.1 mm x 22.4 mm x 64 mm Right-Angle - 43.1 x 35.8 mm x 49.3 mm					
Operating Temperature	Temperature (operating) 0 °C – +40 °C											
Storage Temperature	Temperature (storage) -10 °C – +60 °C											
Operating and Storage Humidity	Humidity < 95% non-condensing											
Protection	IP-65											
RoHS Certified	Yes											
Approvals (CE, UL, FCC)	USA FCC Part 15, Class A Canada ICES-003 European Community EN55022:2006 +A1:2007, Class A, EN55024:1998 +A1:2001 +A2: 2003, EN60950						Australia C-TICK, AS/NZS CISPR 22 / EN 55022 for Class A Equipment Japan J55022, Class A KCC Safety: IEC 60950-1:2005 (2nd Edition); Am 1:2009					
Operating System	Windows 7 (32/64-bit), Windows 8, or Windows XP (32/64-bit)											

*PowerGrid Available

COGNEX Companies around the world rely on Cognex vision and ID to optimize quality, drive down costs and control traceability.

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