COGNEX

DataMan 100/200 QL

INDUSTRIAL ID | FIXED-MOUNT | 1D CODE READERS

DataMan QL Features:

- 1DMax[™], the new standard for 1D barcode reading
- Outstanding performance on difficult-to-read codes
- Supports linear and stacked barcodes
- Easy-to-use setup tool
- Upgradeable software to enable 2D code reading
- Integrated lighting, camera, processor, and communications all in an exceptionally small, industrial-rated housing
- Three-position adjustable lens
- C-Mount and red and clear ESD-safe cover lens options

DataMan 100 Readers Also Feature:

• Super high density (SHD) lens option

DataMan 200 Readers Also Feature:

- Optional variable focus, liquid lens technology. Autofocus is achieved with a single software command; there is no need to manually adjust the focus on the line
- POE connectivity. Allows for real-time data and image transfer, and easier integration with plant controllers and information networks
- Laser aiming. Easily seen through the entire depth of field, enabling operators to quickly position the code to the reader

Versatile Fixed-Mount ID Readers

DataMan fixed-mount image-based ID readers provide the ultimate combination of high performance and versatility in an incredibly small package. DataMan readers represent a breakthrough in combining unmatched code performance (up to 45 reads per second), ease of use, and an extremely small size. Lighting, camera, processor, and communications are all integrated into an industrial housing, making the DataMan fixed-mount readers ideal for the most demanding applications.

Liquid Lens Technology

The DataMan 200 was the first fixed-mount reading system in the world to offer the variable focus liquid lens technology. This optional feature of the DataMan 200 provides greater focal range and ease of setup with extremely fast response times. This unique technology adjusts the camera's focus by applying an electrical charge to fluid within the lens. The liquid lens technology is ideal for applications with variable focus requirements and for the simplest setup and deployment.



1DMax

The DataMan QL readers provide best-in-class 1D barcode reading with the introduction of 1DMax technology. 1DMax is optimized for omnidirectional barcode reading and can handle extreme variations in contrast, blur, damage, voids, specularity, resolution, quiet zone violations, and perspective distortion.

The DataMan QL reader software supports linear and stacked barcodes, but is also future-proof since it can be upgraded at any time to enable 2D (Data Matrix and QR) code reading.





Low Contrast



Specular







Quiet Zone

Damage

Easy Setup and Deployment

Initial reader setup is easy with the setup tool software common to all DataMan products. The software makes the deployment of readers for new and existing applications simple with an intuitive interface and easy reader configuration.

Point-and-click setup displays the image that DataMan sees; results (decoded images and data); real-time process feedback, and many more features, which all add up to the most intuitive and complete user interface available.

MultiCode Capability

The DataMan QL readers support the ability to read multiple codes (MultiCode) in a single image (single or self trigger mode) or in a sequence of images (burst trigger mode). The reader is able to read different 1D code types at the same time, and can read up to 128 codes in the field of view.

Burst Trigger Mode

Burst Trigger Mode allows you to capture and process a sequence of images. With the Setup Tool it is possible to view a complete sequence of burst mode images in a filmstrip to allow for adjusting settings of trigger delay, burst length, and interval between acquisitions to better match the specific application.

##2444	ALC: NOTE: N	out has
* Lanante Banke	 Results Display 	
	interior (interior)	Results Display
Renule Dranes		- B in large balances and a later
19hard Carele Bellings	PC Batt	Partial
hermonge Settings	Dec Battery	Bas on the terretury for the
I Trate Valuation	Mark Rounds Bry Outure	· I standed handle and instancement, but a
Tele Toreatting	ALCONTRACTOR DE LA CONTRACTOR DE LA CONT	Water continue to fraction to be
Correction Sellings	a sa manan	W statute base?
Barten Bellege	ALEXANDER STRATEGY	B sha dan iku ankal antan salamian mandal sa kata alamat i ku kumi kust
	AT THE PARTY OF	B die anverse mein often endertante
	NAMES OF TAXABLE PARTY OF TAXABLE PARTY.	Star out remain to man results and
	A DIA ALA	Were set and draw work inter-
	And and a second s	When many and its maps that do to a
	AND ADD OF LAW AND ADD ADD ADD - DO- DO	When it is not a superior in the
	A REAL PROPERTY AND A REAL	Water in Josephale and a
	and the state of the section of the	House is a panel of many set throw an analysis of the set of the s
	El Transis and Andre, Songel	
	interior land	
	tee Horsenale sourcementer and an and an and an and an	
	This Samp 4 (1) #76	
	Paul hand takes	
	THE THE OWNER OF A DESCRIPTION OF A DESC	
	ANW CONTRACTOR	
	444	
	al terrestante en al al a per por	
	(her blog	
a beautitity line We	trai (maai	Careter

Specifications

Symbologies: 1D and Stacked: UPC/EAN/JAN, Codabar, Interleaved 2 of 5, Code 39, Code 128, Code 93, PostNet, Planet Code, Australia 4-State, Japan 4-State, UPU 4-State, Intelligent Mail Bar Code, Pharmacode, GS1 DataBar, Composite (CC-A, CC-B), PDF417, MicroPDF

Decoding Algorithm: 1DMax

Image Sensor: 752 x 480 (global shutter)

Acquisition: Max 60 fps

Decode Rate: Max 45/sec

Lens Type: 3-position (40/65/105mm) adjustable

Auto Focus: Yes, Liquid Lens optional on DataMan 200 readers

Trigger: Manual; External: Single, Burst & Continuous; Internal: Self & Presentation

Aimer: DataMan 100: Dual LED; DataMan 200: Dual laser (CDRH/IEC Class II)

Discrete Inputs: 2 inputs (opto-isolated)

Discrete Outputs: 2 outputs (opto-isolated)

Status Outputs: DataMan 100: Beeper and 2 multi-functional LEDs; DataMan 200: Beeper and 3 multi-functional LEDs

Lighting: Integrated bright field



© Copyright 2010, Cognex Corporation. All information in this document is subject to change without notice. All rights reserved. DataMan® and Cognex® are registered trademarks of Cognex Corporation. 1DMax™ is a trademark of Cognex Corporation. All other trademarks are property of their respective owners.

Corporate Headquarters. One Vision Drive. Natick, MA 01760 USA. Tel: +1 508.650.3000 Fax: +1 508.650.3344 For local Cognex contact details, visit www.cognex.com. Lit Number: DS2001-03-10.

Communications: DataMan 100: RS-232 and USB: DataMan 200: Ethernet with industrial protocols and RS-232

Power: DataMan 100: 5 VDC to 24 VDC; DataMan 200: 36VDC to 57 VDC (POE)

Power Consumption: DataMan 100: 500 mA @ 5 VDC max; DataMan 200: 50 mA @ 48 VDC max

Material: Aluminum housing

Weight: DataMan 100: 125g; DataMan 200: 75g

Dimensions: DataMan 100: 55mm x 42mm x 22mm DataMan 200: 64mm x 42mm x 21mm

Operating Temperature: 0°C to 45°C (32°F to 113°F)

Storage Temperature: -10°C to 60°C (14°F to 140°F)

Operating & Storage Humidity: 0% to 95%, non-condensing Protection: IP65

ESD Safe: Yes, with ESD safe cover

Approvals: CE, UL, FCC, RoHS

Operating System: Microsoft® Windows® XP and Vista® 32



www.cognex.com