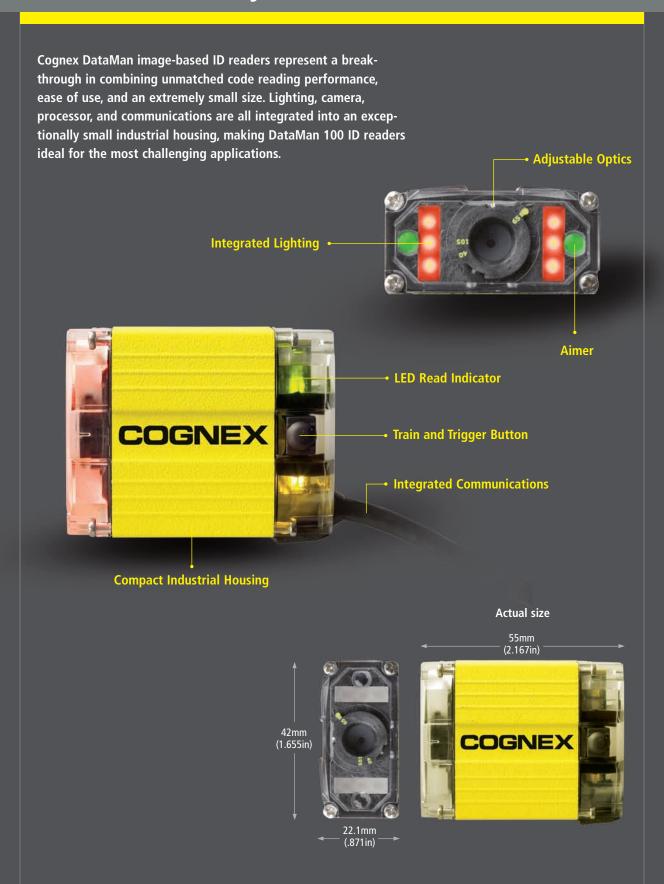
COGNEX

PRODUCT GUIDE 2007

DataMan™ 100, the world's smallest high-performance ID reader, reads everything from simple bar codes to challenging DPM marks with ease!

DataMan 100
Fixed-Mount ID Readers

The Revolutionary Fixed-Mount ID Reader



Read All Codes With Speed and Accuracy

DataMan 100 ID readers achieve an incredibly high performance level ... six sigma read rates at up to 45 parts per second. And, the DataMan 100 family provides 1D and 2D code reading, with models that read even the most challenging 2D codes!

DataMan ID readers incorporate reading algorithms that are optimized to ensure continuously high read rates of 1D and 2D symbologies, in direct part mark and label-based identification applications, on the fastest production lines. This allows DataMan readers to deliver the industry's most reliable code reading. Models are available for all fixed-mount code reading applications

The Power of IDMax[™] ... breakthrough Data Matrix code reading software based upon the patented Cognex PatMax[®] technology. IDMax handles a wide range of degradations to code appearance that result from dramatic degradations in DPM code quality due to differences in material types and surfaces. IDMax is available with the Dataman 100X model.



Model Image



Poor Focus



Washed Out



Low Contras



Finder Degradation



Background Problems

The Speed of IDQuick™ ... fast, high-performance reading of high-quality 1D and 2D codes, as well as low-contrast codes on uniform backgrounds. The DataMan 100Q and 100X models incorporate the IDQuick decoding software.



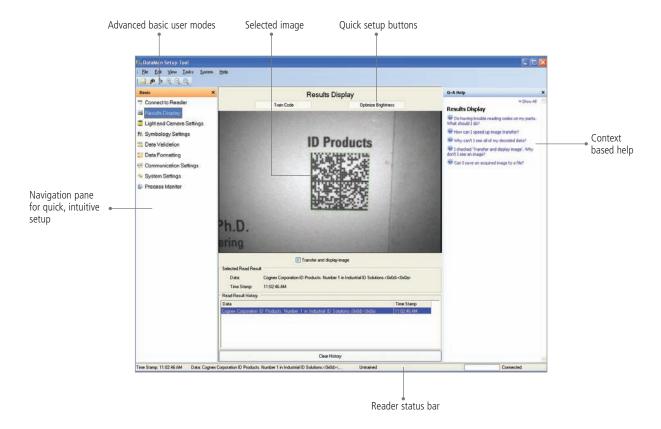
Ease of Use Through Innovation

DataMan 100 series ID readers offer impressive ease of use through the integration of lighting, camera, aimer, and communications. And, a wide array of accessories facilitates DataMan integration into systems.

Quick Setup

The DataMan 100 aimer, train and trigger button, beeper, and LED read indicator enable "out of the box" operation, without requiring a PC for setup or job changeovers. The intuitive setup tool is available for advanced reader setup.

The DataMan 100 setup tool allows quick and easy customization of parameters.





Accessories that Complete an Installation

To simplify and speed up the system integration process, Cognex offers optional accessories specifically designed for use with DataMan 100 ID readers.

The accessories facilitate the integration of DataMan 100 readers into systems, and allows users to adapt to changing requirements.

Reliable Code Reading for Many Industries

DataMan 100 readers are ideal for for item identification and process control in many industries. And, the size of the DataMan 100 — typically 90 percent smaller than other integrated readers in its performance class — allows it to be used in applications where space is limited. This is of particular value in systems such as label printers, clinical analyzers, marking equipment, and document handlers.



Automotive Parts

In this application, a 2D code laser-etched onto a fuel injector is read.



Packaging

DataMan 100 readers are ideally suited to a wide range of packaging applications.



Pharmaceuticals

DataMan 100 ID readers provide accurate reading of multiple code formats in a single view.



Document Handling and Sorting

The DataMan 100 is perfect for sorting documents, envelopes, and more.



Electronic Components

Electronics manufacturers moving from bar code labels to Data Matrix codes (due to space constraints and the need to include more data on parts) use DataMan readers to identify boards and components.

Specifications

ID TOOLS

1D Codes	UPC/EAN/JAN, Codabar, Interleaved 2 of 5, Code 39, Code 128, and Code 93
2D Codes	
Model 100X	Data Matrix ECC 0, 50, 80, 100, 140, and 200
Model 100Q	Data Matrix ECC200
Models 100Q/100X	QR Code and microQR Code
IMAGE	
Sensor	1/3-inch CMOS w/Global
	shutter (752 x 480 resolution)
Acquisition	Max rate 60 fps
Lens type	3 position adjustable lens
	(6.2 mm; F:5 aperture) with
	40mm, 65mm and 105mm
	working distances
I/O	
Trigger	High-speed trigger input,
	manual trigger button
Trigger voltage	-25VDC to +25VDC
Trigger current	7.7mA @ 24VDC
	3.7mA @ 12VDC
	1.33mA @ 5VDC
Trigger delay	1ms (max)
Discrete inputs	2 opto-isolated (one used as
Discrete outputs	trigger) 2 opto-isolated
Status I FDs	2 status LEDs (Read LED and
Status LLDs	communication LED)
Beeper	Programmable functions
LIGHTING	-
Lighting methods	Integrated bright field lighting
	with exposure control
COMMUNICATIONS	
Serial	RS-232
USB	Supports USB 2.0 (12Mbits/sec
POWER	
Operating Voltage	5VDC to 24VDC
Power consumption	500mA @5VDC max (peak)
	A 200 A @FV/DC

Avg: 300mA @5VDC

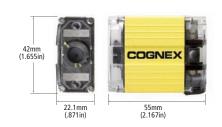
MECHANICAL	
Material	Aluminum housing
Mounting	2 M3 x 3.5 mounting holes
Dimensions	55mm x 42mm x 22mm
	(2.17in x 1.65in x .87in)
Weight	125g (.28lb)

ENVIRONMENTAL

MECHANICAL

Operating temperature	0°C to 40°C (32°F to 104°F)
Operating humidity	95% (non-condensing)
Storage temperature	-10°C to 60°C (-14°F to140°F)
Storage humidity	95% (non-condensing)
Protection	IP-65
Vibration	EN61373, including IEC
	60068-2-6,60068-2-64 6.4,
	and 60068-2-27

CERTIFICATIONS



DATAMAN 100 ID READERS

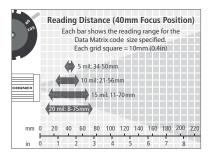
Description	Part Number		
DataMan 100Q	DMR-100Q-00		
DataMan 100X	DMR-100X-00		

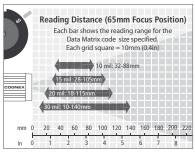
DATAMAN 100 ACCESSORIES

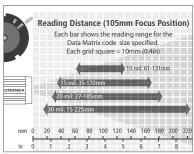
Description	Part Number
Basic Accessory Kit	
(Includes the following items)	DM100-BAK-000
USB adapter cable with	
power tap	DM100-USB-000
Universal mounting bracket	DM100-UBRK-000
Setup tool and drivers (CD)	206-6400-220
Quick Reference Guide	590-7013

Additional Accessories

I/O Module	DM100-IOBOX-000
Extension cable, 5 meter (XXft)	DM100-EXTCBL-000
RS-232 adapter cable with	
power tap	DM100-RS232-000
Power supply	
(USB and RS-232)	DM100-PWR-000







Visit www.cognex.com/dataman for additional product information

COGN	JEX	United States	www.cognex.com	Europe	www.cognex.net	Canada	www.cognex.com
Corporate Head	quarters	Natick, Massachusetts	508-650-3000	France Germany	+33 1 4777 1550 +49 721 6639 0	Japan	905-634-2726 www.cognex.co.jp
Cognex Corporati One Vision Drive	on	Nashville, Tennessee	615-844-6158	Ireland	+353 1 825 4420	Заран	+81 3 5977 5400
Natick		ivastivitie, teritiessee	013-044-0130	Italy	+39 02 6747 1200	Asia	www.cognex.net
MA 01760-2059		Detroit, Michigan	248-668-5100	Netherlands	+31 402 668 565 +34 93 445 67 78	China	+86 21 6320 3821
USA Tel: 508-650-300)	Chicago, Illinois	630-649-6300	Spain Sweden	+34 93 445 67 78	Korea Singapore	+82 2 539 9047 +65 632 55 700
Fax: 508-650-334		Mountain View. California	650-969-4812	Switzerland	+41 71 313 06 05	Taiwan	+886 3 578 0060
www.cognex.co	n	Wouldain view, California	030-909-4012	United Kingdom	+44 1908 206 000		