DATAMAN 370 SERIES BARCODE READERS

Superior read performance for the broadest range of applications



DATAMAN 370 SERIES BARCODE READERS

Superior read performance for the broadest range of applications

DataMan[®] 370 series fixed-mount barcode readers solve challenging direct part mark (DPM) and label-based multi-code, multi-symbology applications using Cognex's latest decoding algorithms, a multi-core processor, and new integrated lighting. With twice the performance and power of conventional readers in the same class, DataMan 370 delivers superior read performance for the broadest range of applications, including:

- High-speed lines
- Difficult-to-read parts
- Small codes
- Multi-code, multi-symbology applications
- Multi-sided scan tunnels



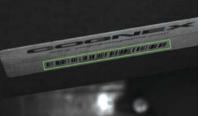
2X read performance and power

DataMan 370 series barcode readers are optimized with patented decoding algorithms to ensure superior read rate performance for 1D and 2D codes. DataMan 370's multi-core processor enables it to run these algorithms and processes in parallel, resulting in two times the performance and power of comparable high-performance readers.



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® 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.

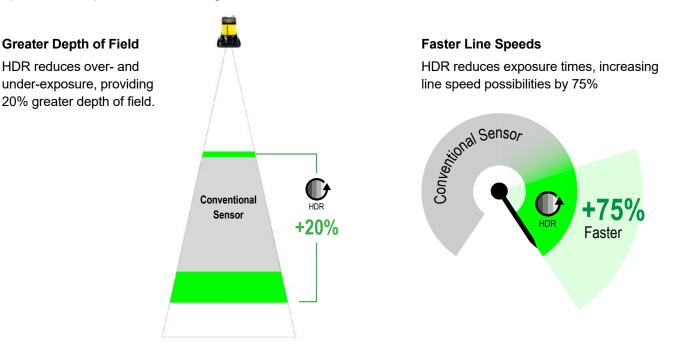






Best-in-class image formation

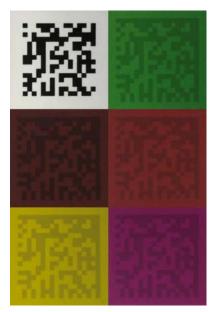
DataMan 370's High Dynamic Range (HDR) imaging uses the latest CMOS image sensor technology to acquire single images that are 16X more detailed than conventional sensors. HDR takes advantage of the extra available image data to globally enhance image quality and contrast, resulting in greater depth-of-field, faster line speeds, and improved code handling.



Improved Code Handling

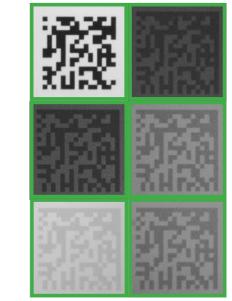
HDR allows DataMan 370 to adjust contrast ranges to read difficult codes with variant backgrounds that cannot be read with conventional technology.

Target Source



Conventional Sensor







Modularity provides unparalleled flexibility

DataMan 370's innovative design with modular lighting, lens, and communication options provides maximum flexibility and ease-of-use.





Easy setup and operation

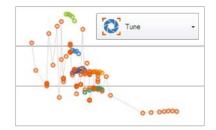
The DataMan Setup Tool software simplifies installation and operation of DataMan 370. Intelligent auto-tuning and application assistants guide the user to quickly optimize complex parameters with ease.



Step-by-step visual guidance

Start Fiel	2 Loss local length
Tripper Signal	3. It also distance from the descel reading pair to the C-Maset Plane
Acquisitor	
Decode Max Timeor	
пппп	
	1
Varies on Decode	
Varies on Decode	

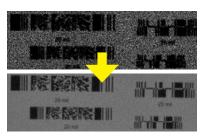
Application assistants



Auto-tune and autofocus



Independent lighting controls



Pre- and post-image optimization tools

	preside appropriate and appropriate approp				
	Angel X	tens f	(mail	COLUMN DATE	Sept
Baarlang.					
Sec.	Seat .	Tena 1	Seral 2	Sea 1	Jung 4
Event .	2	83	10	1 B C C	0
Transie Agenerate Annue ACM					
-CR	Side .	Dist.	1 Martin	Critical	2144
· Image Size (Fragme of Spinster)					
· Insure l'Anima					
-dama listings					
Point Bast					
- faces Range					
140					
Not in the second	414	188	416	100	446
Capit and Incapit Suffrage					
- Inspectations					
(Insur Laker					
Advent Tancos		II	13	0	0
Raimer Departure Last	28.95	20.00	20.00	20100	20.00
Manager Lass Factor	201.10	101.14	201.04	20.10	101.14
(Transferright)	34	14		14.	210
San Faite	12	100	100	100	1.00
1 Insign Horses					
-topic temp					
	CONTRACTOR OF	Construction of the local division of the lo	Contraction of the	A DESCRIPTION OF TAXABLE PARTY.	Contraction of the local division of the loc
Light Sellings	The second	The second second			
	No. of Concession, Name				

Multiple read setups

Performance feedback helps optimize operations

The DataMan Setup Tool software also provides image offload and read result history, process control metrics, and real time monitoring. Process control metrics help identify print quality and readability issues. Real time monitoring provides performance feedback for process optimization, including no-read tracking, code quality metrics, heat mapping, and configuration audit trails.

	Result	Result Status
· · · · · · · · · · · · · · · · · · ·	JII 20 AMONDS	Read
	III 20 AMONDS	Ruad
	III 20VMONDS	Read
10 IX	III 20 AMONDS	Head
HE IN IN	III 2DIAMONDS	Read
LEI KN	III 20WMONOS	Read
	III 20 AMONDS	Read
12 E	III 2DIAMONDS	S Reed
13 18 14	[10:19:16.918AM]	

Image & read result history



Process control metric feedback

	ALC: NAME OF	100		and and the	-
		-	ALC: NO.	Sper anno	-
		-			
		1 2.2	2 4	2.00	
•		2	-	100	
			:	Craw.	
				37.5	
			1	1.19	1.3
				1	
-				1 12	site:
				1 22	1.1
					* . ·
				80	1000
				-	
					66.0

Real time monitoring

Solves the broadest range of applications

With its superior read performance and best-in-class image formation, DataMan 370 easily solves the broadest range of manufacturing and logistics applications with wide field-of-view and large depth-of-field coverage needs.



High-speed code reading



Tire identification



Difficult-to-read automotive parts



Electronic component traceability

DataMan 370 series barcode readers deliver unmatched overhead or desktop presentation scanning performance due to 1D/2D auto-discrimination, a guided laser aimer, and dynamic focusing technology.



Multi-code, multi-symbology presentation scanning

Single-, multi-, and full coverage scan tunnel options are available to help increase throughput in logistics applications. Multi-Reader Sync technology synchronizes several readers for increased field of view and multi-side scanning at high speeds.



Single-sided scan tunnel







Full coverage scan tunnel

DATAMAN 370 SERIES SPEC	DataMan 374	DataMan 375			
Algorithms	1DMax, 2DMax, Hotbars, PowerGrid				
Image Sensor	1/1.8" CMOS 2/3" CMOS				
Image Sensor Properties	Diagonal 8.9 mm; 3.45 µm square pixels Diagonal 11.1 mm; 3.45 µm square p				
Image Sensor Resolution	2048 x 1536 2448 x 2048				
Electronic Shutter Speed		sure: 15 μs nination/10000 μs with external illumination			
Max Acquisition	Up to 80 Hz	Up to 55 Hz			
Lens Options	Liquid lens 10 mm, 16 mm, 24 mm; C-mou	unt 12 mm, 16 mm, 25 mm, 35 mm, 40 mm			
Trigger and Tune Buttons	Yes; Quick Setup	Intelligent Tuning			
Aimer	Optional				
Discrete Inputs	2 fixed + (*) opto-isolated				
Discrete Outputs	2 fixed + (*) opto-isolated				
*Other I/O Points	2 user-configurable				
Status Outputs	Beeper, 5 multifunctional LEDs, 10 LED bar array, 360-degree indicator				
Lighting	Integrated LEDs, red, blue or IR; diffuse, polarized, high powered integrated light (HPIL), high powered integrated torch (HPIT), various controllable external light options	Integrated LEDs, red, blue or IR; diffuse, polarized, high powered integrated torch (HPIT), various controllable external light options			
Communications	Ethernet and serial				
Protocols	RS-232, TCP/IP, PROFINET, EtherNet/IP™, SLMP, Modbus TCP, NTP, SFTP, FTP, MRS, Java Scripting enabled for custom protocols				
Power Consumption	24 VDC ±10%, 1.5 A maximum (HPIL/HPIT¹) 24 VDC, 250 mA maximum (reader) Supplied by LPS or NEC class 2 only				
Weight	165 g				
Dimensions	73 mm x 54 mm x 42 mm; 113 mm x 91 mm x 75mm (with HPIT)				
Operating Temperature	0 °C–57 °C (32 °F–134.6 °F)²				
Storage Temperature	-20 °C–80 °C (-4 °F–176 °F)				
Operating and Storage Humidity	< 95% non-condensing				
Protection	IP67 with cables and appropriate lens cover attached				
RoHS Certified	Y	es			
Approvals (CE, UL, FCC)	Yes				

¹ HPIL denotes one of the DM360-HPIL-RE, DM360-HPIL-RE-P, DMLT-HPIL-RE or DMLT-HPIL-RE-P accessories. HPIT denotes one of the DMLT-HPIT-RE-W, DMLT-HPIT-RE-S, DMLT-HPIT-RE-N, DMLT-HPIT-WHI-W, DMLT-HPIT-WHI-S, DMLT-HPIT-WHI-N accessories.

² In situations where the operating temperature exceeds 40 °C, an external heat sink is required.



COGRNEX Companies around the world rely on Cognex vision and barcode reading solutions to optimize quality, drive down costs and control traceability.

Corporate Headquarters One Vision Drive Natick, MA 01760 USA

Regional Sales Offices

Americas North America Brazil Mexico	+1 844-999-2469 +55 (11) 2626 7301 +01 800 733 4116	Hungary Ireland Italy Netherlands	+36 800 80291 +44 121 29 65 163 +39 02 3057 8196 +31 207 941 398	Asia China India Japan	+86 21 6208 1133 +9120 4014 7840 +81 3 5977 5400
Europe Austria Belgium France Germany	+49 721 958 8052 +32 289 370 75 +33 1 7654 9318 +49 721 958 8052	Poland Spain Sweden Switzerland Turkey United Kingdom	+48 717 121 086 +34 93 299 28 14 +46 21 14 55 88 +41 445 788 877 +90 216 900 1696 +44 121 29 65 163	Korea Malaysia Singapore Taiwan Thailand Vietnam	+82 2 530 9047 +6019 916 5532 +65 632 55 700 +886 3 578 0060 +66 88 7978924 +84 2444 583358

© Copyright 2019, Cognex Corporation. All information in this document is subject to change without notice. All Rights Reserved. Cognex, DataMan, 1DMax, Hotbars, 2DMax, and PowerGrid are registered trademarks of Cognex Corporation. Multi-Reader Sync is a trademark of Cognex Corporation. All other trademarks are property of their respective owners. Lit. No. DSDM370-10-2019

www.cognex.com

83358