

# The global leader in Industrial ID

- Handheld barcode readers
- Fixed-mount barcode readers



# Global Leader in Industrial ID & Machine Vision

Cognex is the world's most trusted vision company, with 850,000+ systems installed in facilities around the world, and over thirty years of experience focused solely on machine vision and image-based industrial ID technology. Cognex products are used by many of the world's top manufacturers, suppliers and machine builders to ensure that the products that are being made meet the stringent quality requirement for each industry.

Cognex vision technology helps companies improve their manufacturing quality and performance by eliminating defects, verifying assembly and tracking and capturing information at every stage of the production process. Smarter automation using Cognex vision and ID systems means fewer production errors, which equates to lower manufacturing costs and higher customer satisfaction. Cognex offers the widest range of solutions to meet every application.



## The most complete product range



## > Local expertise, worldwide reach

Standardizing vision and ID solutions across all production lines reduces the total cost of ownership. As the undisputed global leader in vision-based inspection and identification systems, Cognex is able to deliver and support large scale deployments at multiple global locations. Customers and consumers worldwide are demanding higher quality products than ever before.

Leading manufacturers and suppliers rely on local Cognex engineers and a global network of 450 partners to provide assistance wherever and whenever it is needed.







# Cognex Barcode Readers: Any Code, Every Time

You need reliable barcode readers and, simply put, we read more codes and deliver highest read rates—*that's why people choose Cognex*. When you can put a stop to no-reads by deploying the DataMan<sup>®</sup> family of image-based barcode readers, you can achieve your Automatic Identification (Auto ID) goals:

- Increase efficiencies—aid inventory management, quantify process bottlenecks and improvements, handle supplier printing variations, reduce WIP (work in process)
- Achieve higher throughput—less manual resorting, faster read times, reduced downtime
- Reduce costs—reduce scrap from rework of rejects
- Maintain customer satisfaction—avoid incorrect deliveries and recalls
- **Control traceability**—product quality information, improved asset tracking, allergen management, part authentication deters counterfeiting

Regardless of the barcode symbology, size, quality, printing method or surface the codes are marked on, **we can read it with the highest read rates!** 

- print variations (color, poor print, scratched, washed out)
- marking types (ink jet, dot peen, laser etch, direct part mark)
- surface types (glass, metal, cardboard, ceramic, plastic)

Cognex has the product versatility and most advanced technology to help you meet your goals whether your application uses 1-D linear barcodes or higher density 2-D matrix codes:





**1-D High Speed** Fast moving 1-D barcodes printed on parts or packaging.



1-D Low Speed Slow moving or stationary 1-D barcodes printed on parts or packaging.



#### 2-D Direct Part Mark Dot peen, etched or laser marked 2-D Data Matrix codes marked directly on parts.

### 2-D Printed

2-D printed codes on labels and packaging. Moving or stationary, these can include a mix of 1-D and 2-D codes.





# **Cognex Delivers the Highest Read Rates**

### The #1 benchmark for ranking ID reader performance

Read rate is the number of barcodes read divided by the number attempted. It's usually expressed as a percentage and the closer to 100%, the better.

- Read rate is a measure of process reliability and robustness
- No-reads can cost money, time and effort to remedy
- The higher the read rate, the higher the throughput

### Powerful decoding software algorithms

DataMan barcode readers are optimized with patented algorithms for the highest read rates (99.9%) in the most challenging DPM (Direct Part Mark) and label-based identification applications.

Laser scanners cannot provide the **high read rates** you require for today's manufacturing environments. Other advantages over laser scanner technology include:

- Omnidirectional code reading
- Multiple code reading
- Extreme perspective code reading
- Damaged, poorly printed or barcodes with quiet zone violations



### For 1-D Linear Barcodes

1DMax+<sup>™</sup>, the best-in-class 1-D barcode algorithm reads the most difficult-to-read barcodes. When paired with Hotbars<sup>™</sup> technology, 1DMax+ reads codes even faster.

### For 2-D Matrix Codes

2DMax+<sup>™</sup>, a breakthrough in 2-D decoding software, handles a wide range of degradations to the appearance of 2-D DPM codes, no matter what the cause or surface.





cularity 🔝





perspective



Warped labels 💟



### Supported symbologies

1-D: UPC/EAN/JAN, Codabar, Interleaved 2 of 5, Code 39, Code 128, Code 93, Pharmacode, GS1 DataBar
Postal Codes: POSTNET, PLANET Code, Australia 4-State, Japan 4-State, UPU 4-State, Intelligent Mail Barcode
2-D: Data Matrix, MaxiCode, QR Code and MicroQR Code. Optional: VeriCode<sup>®</sup>
Composite: GS1 (CC-A, CC-B), PDF 417, MicroPDF



# **Unique Cognex Technologies**

### If you can't see the code, you can't read it

Combined with powerful software, advanced image formation allows you to achieve the **highest read rates** by:

- Highlighting poorly marked codes
- Working over a wide range of code sizes with variable focus technology
- Utilizing integrated lighting and advanced innovations to decode faster

## Flexible optics

Each DataMan fixed-mount reader provides a variety of lensing options for maximum depth-of-field flexibility. The DataMan 8000 series of handheld readers offers integrated variable focus liquid lens technology as standard—a worldwide first!



## Flexible illumination

Modular lighting, custom accessories and other in integrated illumination technology provide optimal lighting for all mark types and surfaces.

### Fixed-mount Modular Lighting



### Handheld UltraLight<sup>®</sup> Technology



highly reflective

surfaces

Diffuse bright field illumination for labels and marks with strong contrast

### Advanced patented technologies

#### **Hotbars Technology**

In a pioneering new way of reading 1-D linear barcodes, Cognex has developed Hotbars image analysis technology.



Hotbars combines superior signal fidelity with lightning speed, giving the next generation of Cognex DataMan readers unprecedented performance.

#### Xpand

With patent pending Xpand™ technology, the field-of-view for a single DataMan 300 or DataMan 503 can be increased by more than 50% enabling applications to be solved using fewer readers, which simplifies project installation and setup time and reduces overall cost.





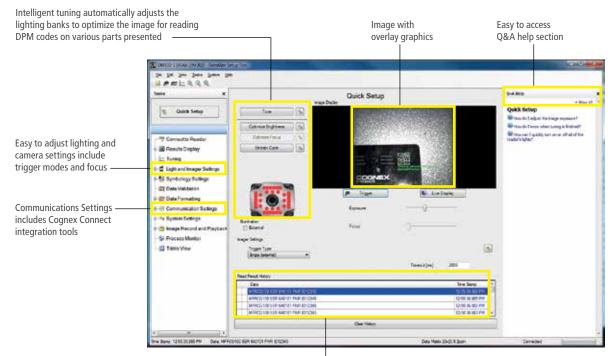
# **Easy Deployment and Operation**

### See what the reader sees

DataMan barcode readers allow you to see what the barcode reader sees. You can review images of the barcodes being read live or setup the reader to transfer no read images via FTP for later review. This visualization feature enables you to diagnose no reads and rejects for process improvement.

## Common Setup Tool with intelligent tuning

Powerful software simplifies initial reader setup. DataMan software is a common platform across all models. The Setup Tool simplifies deployment by putting the most common controls in a single page, allowing the user to see how different options affect the reader in real time.



Results and data history log -

### Cognex Connect communications suite

As a network device, DataMan ID readers can be accessed from any terminal connected to the network. DataMan readers are supported by the Cognex Connect<sup>™</sup> suite of Industrial Ethernet protocols, such as EtherNet/IP (with Add-On-Profile), PROFINET, Modbus/TCP and MC Protocol for easy communication into the factory network.

## Cognex Explorer control center

This unique utility provides a unified network view of all Cognex vision, ID and visualization systems, powerful yet simple maintenance tools, the ability to backup/restore or clone systems, upgrade firmware and much more. Designed for control and maintenance engineers, Cognex Explorer<sup>™</sup> is very intuitive and requires no training to use.







# **DataMan Handheld ID Readers**

## > DataMan 8000 Series

DataMan 750 Series The DataMan 750 is compact with an ergonomic design, adjustable optics and easily reads well-marked 1-D and 2-D codes on a variety of surfaces. The DataMan 750 is ESD safe, has a built-in laser aimer for quick alignment and supports

These rugged handheld readers offer the industry's most advanced technology for reading 1-D and 2-D codes. The DataMan 8000 is the only series of handheld industrial ID readers that offers Industrial Ethernet communication and variable focus liquid lens technology.

- **Two powerful patented algorithms** decode virtually every type of code, every time, with unsurpassed read rates
- Integrated **liquid lens technology** maximizes application and depth of field flexibility
- Field changeable **communication modules** provides corded RS-232/USB, corded Ethernet or a wireless module with intelligent base station (Ethernet, USB, RS-232)

The DataMan 8000 series is available in two models, each can be corded or cordless.

The **DataMan 8500** readers incorporate Cognex patented UltraLight technology for superior image formation on any mark type and surface. UltraLight illumination provides dark field, bright field and diffuse lighting all in one electronically controlled light.

The **DataMan 8100** readers feature integrated bright field illumination ideal for applications that require superior performance for well-printed 1-D and 2-D codes and well-marked DPM codes.



The DataMan 8000 series wireless reader provides a long working range—up to 30m—with a large memory capacity for reading codes when offline or out of range. The base station includes a built in spare battery charger and is compatible with industry standard Ethernet, USB and RS-232 cables.

	Wireless option	ESD safe	Challenging 2-D DPM code reading	2-D DPM code reading	Challenging 1-D/2-D code reading	Well-marked 1-D/2-D code reading
DataMan 8500	•	•	•	•	•	•
DataMan 8100	•	•		•	•	•
DataMan 750		•			•	•
DataMan 750 S	-	•			• • •	•



RS-232, USB and

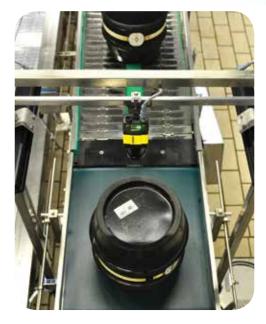
PS/2 communications.

# DataMan Fixed-mount Barcode Readers

### DataMan 300 Series

The DataMan 300 series is the most versatile Cognex fixed-mount barcode reader offering multiple integrated lighting and lens options, an intelligent auto-tune feature, and multiple models to select from.





## DataMan 503 Series

The DataMan 503 is the highest performing Cognex fixed-mount barcode reader for applications requiring high speed and large depth-of-field or field-of-view.



### DataMan 500 Series

The DataMan 500 series is a high performance fixed-mount reader that offers Cognex proprietary vision chip technology, called VSoC.



		2-D Barc	ode Readi	ng		& 1-D e Reading			1-D Barco	ode Readir	ıg	
	Direct Part Mark (DPM)	High Speed	Slow Speed	Multiple Codes	Mixed Codes	Challenging Codes	Ultra Fast	High Speed	Slow Speed	Multiple Codes	Omni- directional	Oriented
DataMan 300/302/303 X	•	•	· · · · ·	• • • • • • • •	•	•		•	• • • • • • •	•	•	•
DataMan 300/302/303 L			•	6 6 6 6 6 6 6	6 6 6 6 6 6 6			•	•	•		•
DataMan 503 X	•	•	•	•	•	•		•	•	•	•	•
DataMan 503 QL			•	- - - - - -	- - - - -		•	•	•	٠	•	•
DataMan 500 X	•	•	•	•	•	•		•	•	•	•	•
DataMan 500 QL			•	• • • •	• • • •			•	•	•	•	•



### DataMan 50 Series



The DataMan 50 series is the smallest Cognex fixed-mount reader measuring just 23.5mm x 27mm x 43.5mm. DataMan 50 features:

- IP65-rated housing
- Three-position adjustable lens
- Integrated lighting and LED aimer
- USB and RS-232 communications



The DataMan 60 series is a compact fixed-mount reader that features:

- Integrated lighting and LED aimer
- Three-position adjustable lens
- Ethernet, USB and RS-232 communications

### DataMan 200 Series

The DataMan 200 series is a flexible fixed-mount reader featuring:

- IP65-rated housing
- Integrated lighting and laser aimer
- Optional variable focus liquid lens technology so there is no need to manually adjust the focus
- Ethernet and RS-232 connectivity

	Direct	2-D Barc	ode Readi			& 1-D e Reading			1-D Barco	ode Readir	g	
	Part Mark (DPM)	High Speed	Slow Speed	Multiple Codes	Mixed Codes	Challenging Codes	Ultra Fast	High Speed	Slow Speed	Multiple Codes	Omni- directional	Oriented
DataMan 50/60 L			a 9 9 9 9		a a a a a			•	•	•	• • • • • • • • • • • • • • • • • • •	•
DataMan 50/60 S	•		•	•	•	•		•	•	•	•	•
DataMan 50/60 QL	•		- 6 6 7	•	- - - - - -	•		•	•	•	•	•
DataMan 100/200 X	•		6 6 7 8	•	•	•		*	9 9 9 9 9 9	• • •	• • • • • • • • • • • • • • • • • • •	
DataMan 100/200 Q	•		6 6 7 8 8	*	* * * *	•		•	•	•	•	•
DataMan 100/200 QL			• • • • • • • • • • • • • • • • • • •	* * * * * *	e e e e e e e e e e e e e	• • • • •		•		•		•







The DataMan 100 series is a standard fixed-mount reader featuring:

- Three-position adjustable lens and C-Mount lens options
- Integrated lighting and LED aimer
- Train and trigger button for ease of setup
- USB and RS-232
   communications

# **ID for Every Industry**





Document Handling









Code Reading on Packages











Food & Beverage







Tote ID & Sorting







One of the most expensive processes at Netflix was the handling of DVD returns. Huge resources were tied up in manually opening mailers, taking out the sleeved discs, checking the titles on the DVDs against the sleeves, checking the discs for physical defects, cleaning them and scanning them into the system.

To improve production quality and reduce labor costs, Netflix implemented a system using DataMan barcode readers to read barcodes on the envelope, sleeve, and DVD disc. Since go-live, the project has exceeded expectations in all areas.



Barcodes are used to pack the newspapers into bundles to make sure they not only arrived quickly but also at the right address. For three decades the barcodes were read using a laser scanner with a tilting mirror, but recently this mature technology was replaced by the next generation of barcode readers: DataMan.

The high performance DataMan 500 made it possible to achieve 100 percent reliability in reading the barcodes after a test phase of just four weeks. And that was for newspaper bundles ranging in height from 0.5 to 10 inches and variations in the position of the code over a range of 15 inches plus.



# Borg Warner uses DataMan readers for turbocharger traceability

Borg Warner Turbo Systems implemented a project to mark each component to create seamless traceability through the production process and beyond.

Even at high temperatures and at high volumes, DataMan readers were up to the task. Parts were scanned at each station with such ease and speed that the traceability project was able to achieve its goals as well as lower costs by increasing efficiencies and reducing rework and scrap.





# Beyonics moved to 2-D codes to save space and increase throughput

As electronics shrink in size, smaller printed circuit boards (PCBs) mean less space for labels, while the increasing demand for product traceability requires more information. Beyonics had to migrate to 2-D Data Matrix codes.

Beyonics' existing readers were in poor condition and could not read 2-D codes. The direct replacement was implemented without altering any existing software programming or hardware wiring configurations while achieving higher read rates and increasing production throughput by about 10%.









# Handheld Reader Specifications

	750 S	750	8100	8500
1-D and Stacked Codes		Y	/es	
2-D Codes		Ŷ	′es	
Decoding Algorithm	IDQuick/1DMax	1DMax/2DMax	1DMax+/2DM	/lax+/Hotbars
Image Sensor		x 480 shutter		x 1024 Ition sensor
Lens Type	(40/65	osition (105mm) stable	(working dis	us liquid lens stances from 00mm)
Trigger		Handle trigge	r, presentation	
Aimer		aser EC Class II)	Laser,	Class II
Status Outputs		LED, beeper	and vibration	
Lighting		Integrated bright field		Integrated UltraLight (bright, dark and diffuse)
Communications	RS-232, U	SB and PS/2	Ethernet Module: EtherNet Modbus TCP, T Intelligent Base Station: Etherne	232, USB and PS/2 /IP, PROFINET, MC Protocol, TCP/IP and FTP et (TCP/IP, FTP), RS-232 and USB 802.11 b/g Channels 1-11)
Cordless Option		Vo	Y	es
Power	51	/DC	2.5 W maximum LPS or N DataMan 8500 with Ser 5.0 W maximum LPS or N DataMan 8100/8500 PoE Class 2	rial Module: 5V - 6V DC, NEC Class 2 power supply rial Module: 5V - 6V DC, NEC Class 2 power supply with Ethernet Module: sower supply or PoE Class 3 power supply
Material	Polyca	rbonate		rbonate th overmold
Weight	1	10g	32	l6g
Dimensions	151mm x 54	4mm x 49mm	220mm x 15	5mm x 85mm
Operating Temperature		o 50°C o 122°F)		o 40°C o 104°F)
Storage Temperature	-10°C to 60°C	(14°F to 140°F)	-40°C to 60°C (	(-40°F to 140°F)
Drop Resistance		50 drop:	s from 2m	
Operating and Storage Humidity		0% to 95%, n	on-condensing	
Protection	IF	250	IP	54
ESD Safe	١	/es	N	lo
DoD UID Data Validation	No		Yes	
RoHS Certified		Y	′es	
Approvals (CE, UL, FCC)		Y	′es	
Operating System		Microsoft <sup>®</sup> Windows <sup>®</sup> XP an	d Windows 7 32 bit and 64 bit	





# Fixed-mount Reader Specifications

S Models

QL Models

L Models

		QL MOUCIS		Jinouel				loueis	
1DMax+ algorithm with Ho technology for reading the challenging, high speed 1-I presented in fixed position, horizontally or vertically.	most D barcodes	Best-in-class 1-D bar supported by 1DMaa technology, which is fast omnidirectional	x+ with Hotbars optimized for ultr	where parts a 1-D/2-D code	ving parts or inde have well-marked es.		techn highe	dition to 1DMax+ ology, X models a est-performance fo equire reading 2-	also provide the or applications
	300 L	300 X	302 L	302 X	303 L	303	х	503 QL	503 X
1-D and Stacked Codes				Y	es				
Omnidirectional 1-D Codes	No	Yes	No	Yes	No	Yes		Yes	Yes
Postal Codes	No	Yes	No	Yes	No	Yes		No	Yes
2-D Codes	No	Yes	No	Yes	No	Yes		No	Yes
Algorithm	1DMax+, Hotbars	1DMax+, Hotbars, IDQuick, 2DMax+	1DMax+, Hotbars	1DMax+, Hotbars, IDQuick, 2DMax+	1DMax+, Hotbars	1DMax Hotba IDQuid 2DMa	rs, ck,	1DMax+, Hotbars	1DMax+, Hotbars, IDQuick, 2DMax+
Image Resolution		00 x 600 bal shutter	1280 x global s			x 1200 shutter		2048 global	k 1088 shutter
Image Sensor			1/1.8″	CMOS				2/3"	CMOS
Acquisition		Max 6	50 fps		Max	40 fps		Max 1	50 fps
Decode Rate		Max 4	15/sec		Max	30/sec		120	/sec
Lens Options		C-Ma	ount, S-Mount, va	riable focus liqui	d lens			C-M	ount
Trigger			Ex	ternal: single, bu	nual; irst and continuoi nd presentation	JS;			
Aimer			Dual laser (CDF	RH/IEC Class II)				No	ne
Discrete Inputs			2 opto-	isolated				4 opto-	isolated
Discrete Outputs				4 opto-	isolated				
Status Outputs			Beeper,	5 multifunctiona	l LEDs, 10x LED b	ar array			
Lighting		Integrate	ed segment-contro	olled bright field,	, external				d illumination , external
Communications				Ethernet a	and RS-232				
Power				24VDC	(±10%)				
Power Consumption		5W (inter	nal lights), 18W (ii	nternal and exte	rnal lights)			15W (DM 36W max (	503 only), with HPIA)
Material				Alum	ninum				
Weight			16	5g				1.5	ikg
Dimensions		73mm x 54mm x	42mm, 92mm x 5	4mm x 42mm (w	//cover and lights	)			nm x 158mm or lens cover)
Operating Temperature				0°C to 45°C (	32°F to 113°F)				
Storage Temperature				-10°C	to 60°C				
Operating and Storage Humidity				0% to 95%, n	on-condensing				
Protection				IP	65				
RoHS Certified				Y	es				
Approvals (CE, UL, FCC)				Y	es				



X Models



Operating System

 $\mathsf{Microsoft}^{\$}\,\mathsf{Windows}^{\$}\,\mathsf{XP}$  and  $\mathsf{Windows}\,7\,32$  and 64 bit

## Fixed-mount Reader Specifications

QL Models	Q Models

X Models

Best-in-class 1-D barcode reading with 1DMax, which is optimized for omnidirectional barcode reading. QL models are field upgradable to the Q model.

High-performance code reading of 1-D/2-D codes on fast-moving parts. Includes 1DMax and IDQuick technologies. Highest-performance code reading for applications that require reading the most challenging DPM codes or 1-D/ 2-D codes.

	100 QL	100 Q	100 X	200 QL	200 Q	200 X
1-D and Stacked Codes			Y	25		
2-D Codes	No	Y	es	No	Y	es
Decoding Algorithm	1DMax	1DMax, IDQuick	1DMax, IDQuick, 2DMax+	1DMax	1DMax, IDQuick	1DMax, IDQuick, 2DMax+
Image Sensor			752 x 480 gl	obal shutter		
Acquisition			Maxe	50 fps		
Decode Rate			Max 4	15/sec		
Lens Options		ion (40/65/105mm) adj e, SHD (super high den			on (40/65/105mm) adj i liquid lens. large aper	
Trigger				nual; rst and continuous; nd presentation		
Aimer		LED		Dua	al Laser (CDRH/IEC Clas	is II)
Discrete Inputs			2 Opto-	isolated		
Discrete Outputs			2 Opto-	isolated		
Status Outputs				er and ctional LEDs		
Lighting			Integrated	bright field		
Communications		RS-232 and USB			Ethernet and RS-232	
Power		5VDC to 24VDC			36VDC to 57VDC (PoE)	)
Power Consumption		500mA @ 5VDC max			50mA @ 48VDC max	
Material			Alum	inum		
Weight		125g			75g	
Dimensions		55mm x 42mm x 22mn			64mm x 42mm x 21mm	ו
Operating Temperature			0°C to 40°C (3	32°F to 104°F)		
Storage Temperature			-10°C to 60°C	(14°F to 140°F)		
Operating and Storage Humidity			0% to 95%, no	on-condensing		
Protection			IP	65		
ESD Safe			Yes, with ES	D safe cover		
DoD UID Data Validation			Y	25		
RoHS Certified			Ye	25		
Approvals (CE, UL, FCC)			Y	25		
Operating System		Micr	osoft <sup>®</sup> Windows <sup>®</sup> XP a	nd Windows 7 32 and 6	54 bit	





## Fixed-mount Reader Specifications

**QL Models** 

Models	
slow-movina	r

S I

For slow-moving parts or index motion where parts have well-marked 1-D/2-D codes.

1DMax+ algorithm with Hotbars technology for reading the most challenging, high speed 1-D barcodes presented in fixed position, either horizontally or vertically.

L Models

Best-in-class 1-D barcode reading supported by 1DMax+ with Hotbars technology, which is optimized for ultra fast omnidirectional barcode reading.

#### X Models

In addition to 1DMax+ with Hotbars technology, X models also provide the highest-performance for applications that require reading 2-D codes.

	50 L	50 QL	50 S	60 L	60 QL	60 S	500 QL	500 X
1-D and Stacked Codes	Yes, oriented	Yes, omni- directional	Yes	Yes, oriented	Yes, omni- directional		Yes	
Omnidirectional 1-D Codes	No	Y	es	No		Yes		Yes
Postal Codes				No				Yes
2-D Codes	N	lo	Yes	N	0	Yes	No	Yes
Algorithm	1DMax+,	, Hotbars	1DMax+, Hotbars, IDQuick	1DMax+,	, Hotbars	1DMax+, Hotbars, IDQuick	1DMax+, Hotbars	1DMax+, Hotbars, IDQuick, 2DMax+
Image Resolution			752 x 480 g	lobal shutter			1024 x 768 g	global shutter
Image Sensor			1/3″ (	CMOS			VSoC (contact Co	ognex for details)
Acquisition			Max	60fps			Max 10	000 fps
Decode Rate	Max 4	45/sec	Max 5/sec	Max 4	15/sec	Max 5/sec	Max	90/sec
Lens Options		3	-position (45/70/	110mm) adjustab	le			t, variable Juid lens
Trigger	and con	ingle, burst	Manual; External: single Internal: self and presentation	and con	ingle, burst tinuous;	Manual; External: single Internal: self and presentation	Mar External: s and con	nual; ingle, burst tinuous; nd presentation
Aimer			LE	D			Dual laser (CD	RH/IEC Class II)
Discrete Inputs			2, non-	isolated			4 opto-	isolated
Discrete Outputs			3, non-	isolated			4 opto-	isolated
Status Outputs	3 multif	unctional LEDs, (	external control b	ox with beeper a	nd two buttons a	vailable)	Beeper, 5 multi	functional LEDs
Lighting				Integrated brigh	nt field, external			
Communications		USB and RS-232		Ethe	rnet, USB and R	5-232	Ethernet a	and RS-232
Power		5	SVDC to 24VDC or	USB Bus powere	d		36VDC to 5	7VDC (PoE)
Power Consumption			2.5	5W			13W max in	cluding HPIA
Material	Aluminum, P	olycarbonate	Alum	inum Housing \ P	olycarbonate W	ndow	Alum	iinum
Weight		76g (w/cable)			100g (3.42 oz)		35	0g
Dimensions	23.5m	nm x 26.5mm x 4	5.4mm	55mr	m x 44.5mm x 23	.5mm	106mm x 70	mm x 52mm
Operating Temperature				0°C to 40°C (3	32°F to 104°F)			
Storage Temperature				-10°C t	o 60°C			
Operating and Storage Humidity				0% to 95%, n	on-condensing			
Protection		IP65			IP40		IP	65
RoHS Certified				Y	es			
Approvals (CE, UL, FCC)				Y	es			
Operating System			Microsoft®	Windows® XP a	nd Windows 7 32	2 and 64 bit		





# Whatever you make, make it right with **Cognex Vision**

People choose Cognex because we do more with vision. How do we do more with vision? We have the capabilities to do more inspections with greater reliability and repeatability than any other supplier.

Cognex vision technology performs tasks that are difficult or impossible for people to do reliably and consistently. Our vision systems speed production, minimize defects and reduce costs.

Whether it is a standalone vision system or powerful vision software integrated into an OEM machine, vision technology can be used for one or any combination of the following applications:



#### Inspect

Inspect for assembly errors, surface defects, damaged parts and missing features. Identify the orientation, shape and position of objects and features.



### Guide/Align

Guide automation equipment and robotic devices. Align parts for high accuracy assembly operations and other manufacturing processes.



#### Gauge/Measure

Gauge parts to check critical dimensions. Measure components for sorting and classification processes.





#### **OCR/OCV**

Read and verify alphanumeric characters marked directly on parts and printed on labels.



#### Presence/Absence

Detect the presence or absence of simple features and objects to give basic pass/fail results.



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

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United States, South	+1 615.844.6158	France	+33 1 4777 1550	Japan	+81 3 5977 5400
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