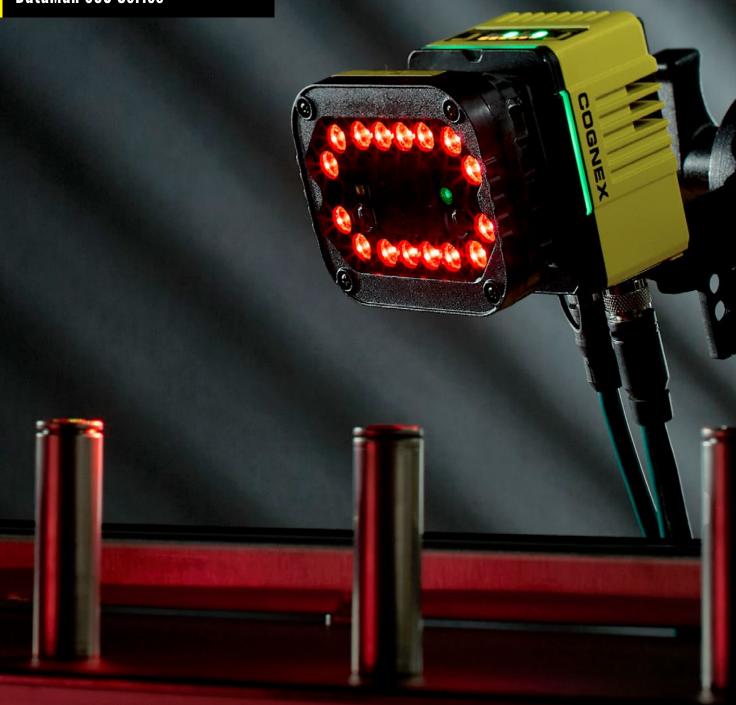


Advanced machine vision made easy

# The toughest barcode reading made easy with Al

DataMan 390 Series



# Do more with industrial barcode reading than ever before

# DataMan 390 Series

# More resolution, more speed, more field of view

Solve multi-code, multi-symbology applications with embedded Al and industry-leading decoding performance.

# Simply unbox and deploy

Automate decoding with ease. Guided setup, Al tuning, and real-time feedback ensure success from the start.

# Tailored to your factory floor

Customize your DataMan® 390 with accessories configured to meet your specific challenges.



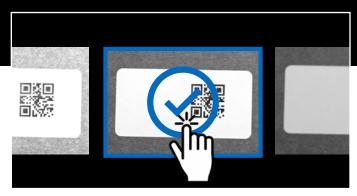


# **Key features**



# Web UI with guided setup

Follow guided setup to save time and reduce errors.



# Al-enabled tuning

Get successful reads in a single click to minimize downtime.



# Al-enhanced decoding

Read all code types, including damaged or low-quality codes, for guaranteed results.



# **Advanced connectivity**

Control the flow of data and images from your factory floor with two independent Ethernet ports.



# **Unparalleled flexibility**

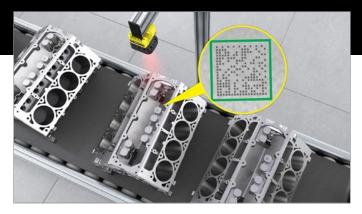
Pairing the high-resolution DataMan 390 with numerous lensing and lighting options makes it highly configurable to any application, at any distance and with any code.



# **Built-in support gateway**

Simplify setup with self-service support, directly accessible from the interface where you configure your device.

# **Application examples**



#### **Automotive**

Decode on reflective surfaces from a long distance with accuracy, ease, and speed.



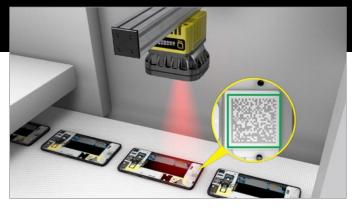
#### **Consumer goods**

Read multiple codes at the same time for fast and efficient track and trace operations.



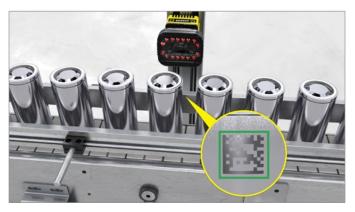
### Food and beverage

Reliably read barcodes at fast line speeds.



#### **Electronics**

Simultaneously read barcodes on printed circuit boards (PCBs) and chips for accurate tracking and traceability.



#### Electric vehicle

Easily decode direct part marks (DPMs) on EV batteries.



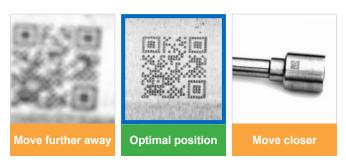
### Logistics and warehouse operations

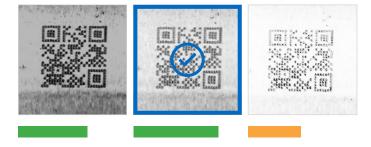
Accurately locate and read codes, even when placement is inconsistent or unpredictable.

# Optimize your read rates with Al at every step

Find, enhance, and read barcodes with unmatched ease and accuracy.

# **Find**





### Al-guided positioning

Real-time positioning feedback ensures the code is at the optimal distance from the reader, maximizing accuracy and improving read rates.

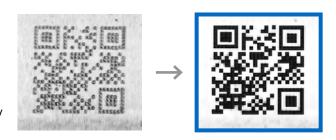
### Al-enabled tuning

Find the right settings with automated tuning for easy setup and quickly locate barcodes for faster processing.

# **Enhance**

# Al-enhanced decoding

Increase image quality and detect clocking patterns in damaged or low-quality codes for more reliable code reading.



# Read

# Al-powered analysis

Read all code types, including occluded, distorted, or challenging codes with industry-proven decoding algorithms.

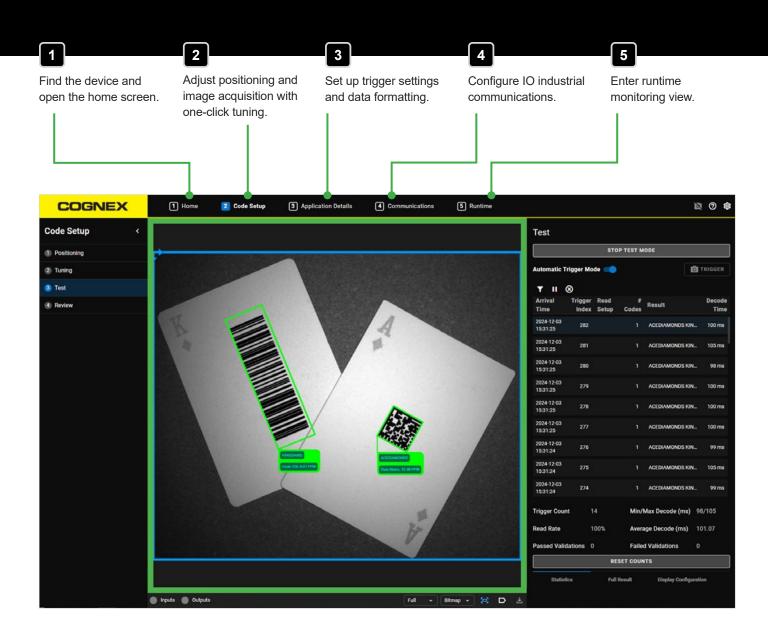






# Go from unboxing to scanning in minutes with fast, simple setup

Web-based UI with guided workflow makes it easy



### Support for advanced use cases and existing installations

For specialized applications, use the DataMan Setup Tool to customize the solution to your specific needs.

For existing users, maintain continuity with your current setup.



# Handle a range of industrial barcode reading requirements

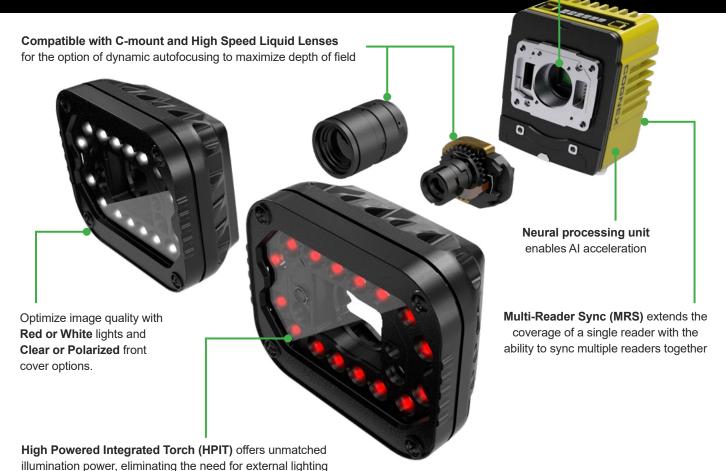
#### Unified design offers flexible performance

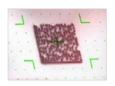


Patented PowerGrid™ technology optimizes code reading performance

**HDR+** enhances image contrast

3 or 5 MP sensor enables greater coverage over applications requiring large fields of view





Laser aimer helps guide field of view to desired target



Multi-colored LED indicators provide operator feedback



Distance sensor allows you to dynamically focus the lens or trigger the reader

Two Ethernet ports for independent communication and image offload



Flexible connectivity supports USB HID Mode as well as all factory floor protocols for easy installation

# **Empowering your success with** end-to-end customer support

**Cognex Customer Success** 

From personalized setup and training to expand your capabilities to continual learning and performance optimization, Cognex guides you at every step of your automation journey.

With Cognex Customer Success, you can focus on what matters most - delivering quality, innovation, and efficiency in your manufacturing process.

- Plan & Deploy
- Run & Support
- Expand & Optimize



# Plan & Deploy

- Targeted guidance to choose the right products and validate your deployment
- Tuning and positioning guidance built in
- Curated documentation and videos for configuration and setup
- Single-click registration to access more customized support





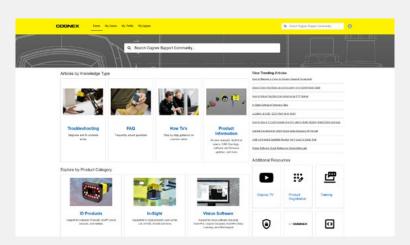
Watch DataMan 390 tutorials:

cognex.com/dataman-390-support



# **Run & Support**

- Connected tech support flows seamlessly across email, text, WhatsApp, phone, and chat
- Expert help and guidance via visual remote assistant and easy online scheduling
- Self-service training to take you from beginner to expert, in multiple languages
- Cognex support community provides answers, real-time status updates, and transparent case tracking
- Reliable, resilient products made to stay running consistently, tolerate harsh environments, and be easy to adjust if needed



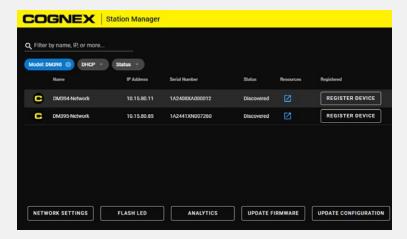


### **Cognex Support Community** community.cognex.com/support



# **Expand & Optimize**

- Broad portfolio of products with common tools and software, plus easy upgrade paths
- Pre-built dashboards that help you find performance insights across your entire operation
- Management tools to control settings across devices, lines, and plants
- Out-of-the-box data sharing makes it easy to connect to enterprise systems
- Coaching from experts with decades of experience to help you grow quickly and smoothly



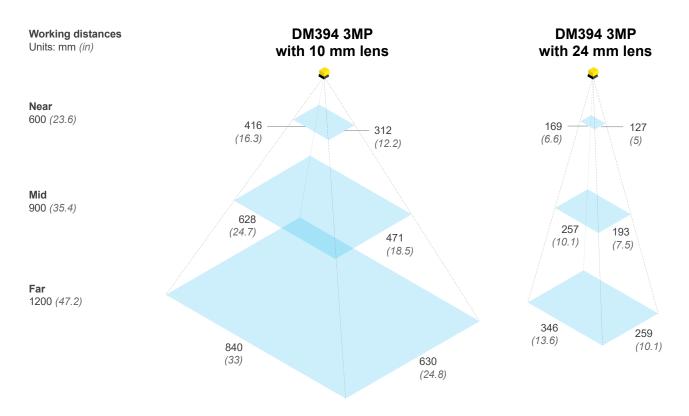
#### **Station Manager**

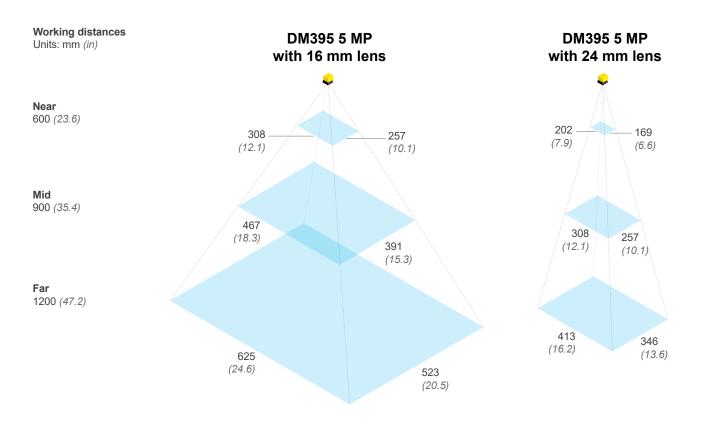
Connect and manage multiple devices, set up your application, and enhance your performance with direct access to support resources.

# **Specifications**

DataMan 390 Series	DataMan 394X	DataMan 395X	
Image Sensor	1/1.8" CMOS, global shutter	2/3" CMOS, global shutter	
Image Sensor Properties	8.99 mm diagonal, 3.45 x 3.45 µm square pixels	11.1 mm diagonal, 3.45 x 3.45 µm square pixels	
Image Resolution	2048 x 1536	2448 x 2048	
Lens Options	C-mount and Cognex High Speed Liquid Lens		
Electronic Shutter Speed	25.1 µs to 200,000 µs  25.1 µs to 200,000 µs		
Acquisition at Full Resolution	Up to 45 Hz		
Lighting	High Powered Integrated Torch (HPIT): Red or White Lighting with a Distance Sensor,  Laser Aimer, and Configurable Indicator Lights  Front Cover Options: Polarized and Clear  Other: External Light Options		
Status Outputs	Pass/Fail LED and Indicator Rin	ng, Network LED, and Error LED	
Discrete Inputs	1 opto-isolated, acquisition trigger input. Up to 3 general-purpose inputs when connected to the Breakout cable.		
Discrete Outputs	Up to 4 high-speed outputs when connected to the Breakout cable.		
Power	24 V DC at 1.0 A maximum to external light		
Power Consumption	24 V DC +/- 10%, 2.0 A maximum		
Dimensions	DataMan 390 with no accessories: 69 x 89.7 x 45.9 mm (2.72 x 3.53 x 1.81 in)  With HPIT: 90.5 x 89.7 x 89.1 mm (3.56 x 3.53 x 3.51 in)  With 45 mm C-mount cover: 69 x 89.7 x 99.7 mm (2.72 x 3.53 x 3.93 in)		
Weight	DataMan 390 with no accessories: 569 g (20.1 oz) With HPIT: 762 g (26.9 oz) – no lens included With 45 mm C-mount cover: 624 g (22 oz) – no lens included		
Operating Temperature	0-40 °C (32-122 °F)		
Storage Temperature	-20-80 °C (-4-176 °F)		
Operating and Storage Humidity	< 95% non-	-condensing	
Shock	IEC 60068-2-27: 18 shocks (3 shocks in each polarity in each (X,Y, Z) axis) 80 Gs (800 m/s² at 11 ms, half-sinusoidal) with cables or cable plugs and a 150 gram or lighter lens attached.		
Vibration	IEC 60068-2-6: vibration test in each of the three main axis for 2 hours at 10 Gs (10 to 500 Hz at 100 m/s² / 15 mm) with cables or cable plugs and a 150 gram or lighter lens attached.		
Environmental	Altitude: 2000 m, indoor use only, pollution degree II		
Communications	2 Ethernet Ports		
Ethernet	10/100/1000 BaseT with auto MDIX. IEEE 802.3		
RS-232	RxD, TxD according to Tia/EIA-232-F		
Protocols	TCP/IP Protocol Supports DHCP, static, and link-local IP address configuration. One port supports TSN networks		
Protection	IP	67	
RoHS Certified	Y	es	
Approvals	CE, FCC, TÜV SÜD NRTL		

# Field of view diagrams\*





<sup>\*</sup>These values are not exact minimum and maximum working distances, which are dependent on code size. Please see the DataMan 390 Reference Manual for more information.

# **Product IDs and Descriptions\***

DataMan 390					
	Product ID	Resolution	Light	Lens	Cover
Second Second	DM394X-10-TP	3.1MP	HPIT (Red)	10 mm HSLL	Polarized
	DM394X-24-TP	3.1MP	HPIT (Red)	24 mm HSLL	Polarized
(O)	DM394X-0000	3.1MP	_	_	_
Source Co.	DM395X-16-TP	5MP	HPIT (Red)	16 mm HSLL	Polarized
	DM395X-24-TP	5MP	HPIT (Red)	24 mm HSLL	Polarized
<b>(2)</b>	DM395X-0000	5MP	_	_	_

<sup>\*</sup>This table includes only the most common product models. To get information on other available models, please contact Cognex Sales at cognex.com/contact-sales.

# **Cognex: Your Single Supplier for All Barcode Reading Applications**

For an even simpler solution, check out the DataMan 290.



With the same user interface, transitioning to this reader is easy for applications that require smaller fields of view or have space constraints.

cognex.com/dataman290



# **Components and accessories**

Power and I/O				
	Product ID	Length	Description	
	CCB-PWRIO-05	5M	M40 40 to flying load	
	CCB-PWRIO-10	10M	M12-12 to flying lead, straight	
	CCB-PWRIO-15	15M	Straight	
	CCB-PWRIO-05R	5M	M12-12 to flying lead, right-angled	
	CCB-PWRIO-10R	10M		
	CCB-PWRIO-15R	15M	right-angled	
-	CCB-CIO-40517-100	1M	Right Angle Shielded	
	CCB-CIO-40517-200	2M	Secondary Cable	
BOGNEX	DMA-CCM-1-US		Single cam I/O box	

Ethernet Cables				
	Product ID	Length	Description	
	CCB-84901-2001-02	2M		
	CCB-84901-2001-05	5M	X-coded M12-8 to	
	CCB-84901-2001-10	10M	RJ-45, straight	
	CCB-84901-2001-15	15M	110-40, Straight	
	CCB-84901-2001-30	30M		
0	CCB-84901-2002-02	2M		
	CCB-84901-2002-05	5M	X-coded M12-8 to	
	CCB-84901-2002-10	10M	RJ-45, right-angled	
	CCB-84901-2RBT-02	2M	Robotic X-coded	
	CCB-84901-2RBT-05	5M	M12-8 to RJ-45,	
	CCB-84901-2RBT-10	10M	straight	
	CCB-M12X8MS- XCAC	0.5M	X-coded to A-coded Ethernet cable adapter	
T	CCB-CIO-51016-100	1M	Right Angle Ethernet	
	CCB-CIO-51016-200	2M	Chain Cable	

Lenses		
	Product ID	Description
	CLN-C10F5FS-HSLL	10 mm f5 Cognex High Speed Liquid Lens*
	CLN-C16F8FS-HSLL	16 mm f8 Cognex High Speed Liquid Lens*
	CLN-C24F6FS-HSLL	24 mm f6 Cognex High Speed Liquid Lens*
	LMC-ML-M1218UR	12 mm Variable Aperture Moritex UR Lens
	LMC-ML-M1616UR	16 mm Variable Aperture Moritex UR Lens
	LMC-ML-M2516UR	25 mm Variable Aperture Moritex UR Lens

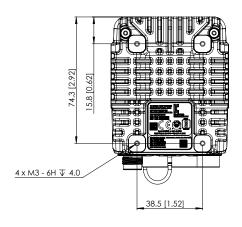
\*No IR Blocking Filter

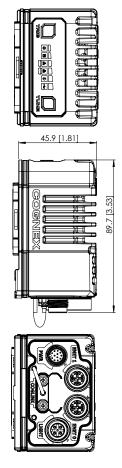
Mounting Brackets			
	Product ID	Description	
	DMBK-PIVOT-DM380	Pivot mounting bracket	
II	BKT-INS-01	Flat mounting bracket	

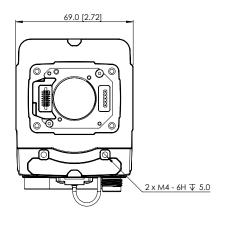
### **Dimensions**

#### DataMan 390 Base Unit

**Download CAD files** 

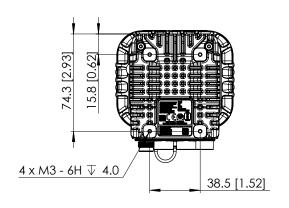


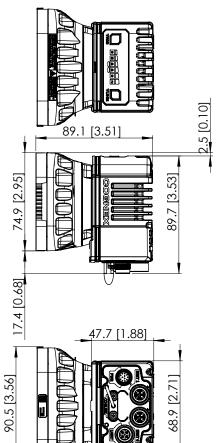


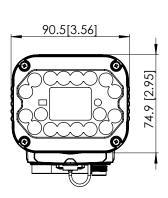


#### DataMan 390 with HPIT

**Download CAD files** 

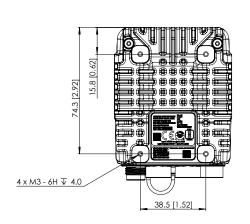


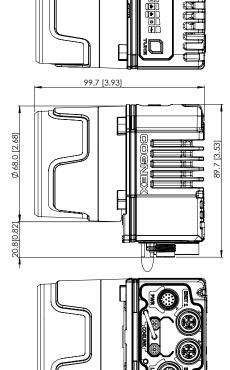


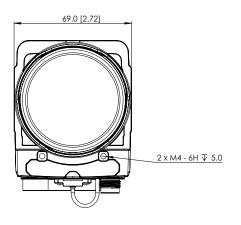


#### DataMan 390 with 45 mm Lens Cover

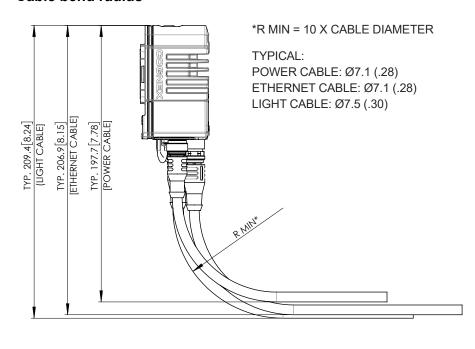
#### **Download CAD files**

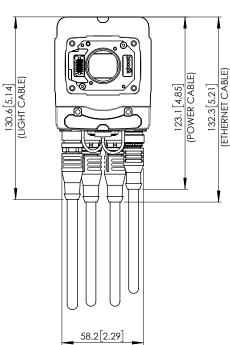






#### Cable bend radius





# **Build Your Vision**

### **Vision Systems**

Advanced AI makes it easy to deploy vision systems for automating inspection tasks, from defect detection to assembly verification and text reading.

www.cognex.com/machine-vision









#### **Barcode Readers**

Track and trace from the floor to dock door, with flexible readers and verifiers designed for ease of use and reliability.

www.cognex.com/barcodereaders









# **Industry Solutions**

Tackle complex applications across a wide range of industries with powerful machine vision solutions that simplify today's manufacturing and logistics challenges.

www.cognex.com/solutions









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

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