COGNEX

Advanced machine vision made easy

High-Performance Verification for Inline and Offline Applications

DataMan 395V Series Barcode Verifiers



One Platform for All Verification Needs

Reliable, ISO-Compliant Verification for Any Code in Any Environment

DataMan 395V Series Barcode Verifiers

Supporting both small- and large format scanning, the DataMan® 395V Series Barcode Verifiers deliver reliable verification across online and offline applications, from in-line production to lab environments. Built on a single software stack with a modern, web-based user interface, DataMan 395V Verifiers simplify setup, ensure a consistent user experience across devices, and enable scalable deployment. This unified architecture supports evolving code standards, providing a future-ready foundation for changing verification needs.



DataMan 395V-LBL

Inline/Offline Verifier for Label-Based Codes



DataMan 395V-DPM

Inline/Offline Verifier for Direct Part Marks (DPMs)



DataMan 395V-HD

Inline/Offline Verifier for Small DPMs



DataMan 395V-OPTIMA

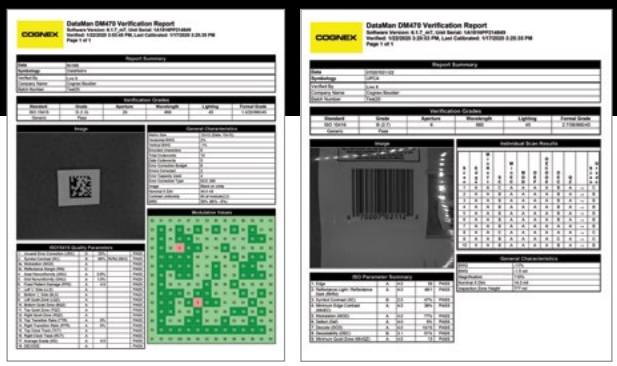
Offline Portable Barcode Verifier for Standard Large-Format Applications



DataMan 395V-OMNI

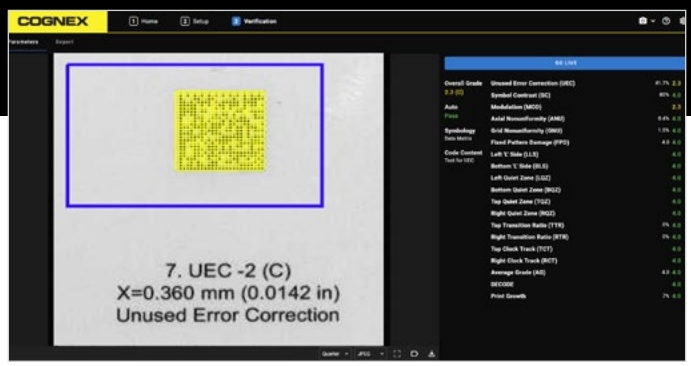
Offline Desktop Barcode Verifier for Extended Large-Format Applications

Key Features



Rich, Exportable Data

Detailed verification results are easily exported and archived to ensure traceability, statistical process control, compliance, and continuous process improvement.



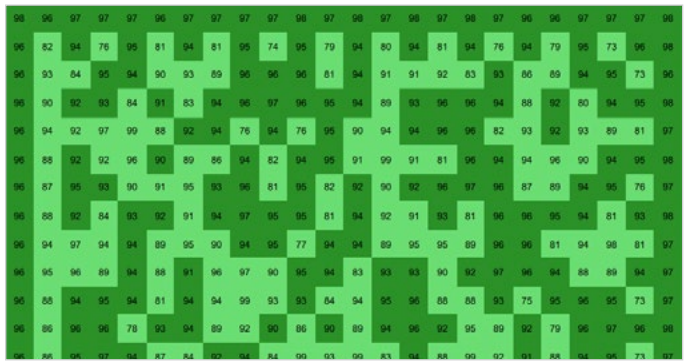
Unified Software Platform

A single software stack delivers a consistent user experience, simplifying setup, operation, and maintenance.



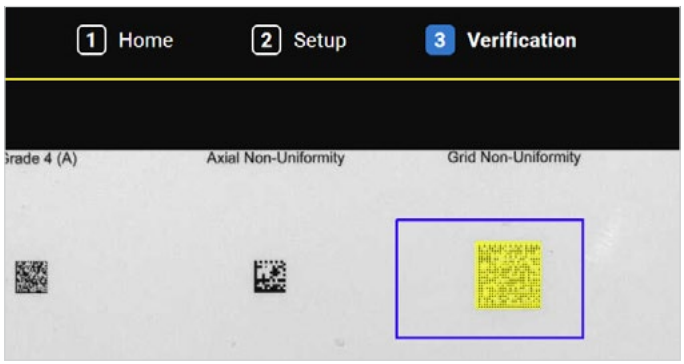
Standards-Ready Compliance

Built to support current verification standards and quickly adapt to revisions or emerging regulatory requirements.



Real-Time Feedback and Diagnostics

Immediate visual feedback and intuitive diagnostics help operators detect and correct printing or process issues as they occur, reducing errors and downtime.



Web-Based Guided Setup

An intuitive interface simplifies configuration and minimizes training time for faster deployment.

ISO-Standard Grading

Barcodes are evaluated using ISO-defined quality parameters to ensure consistent and reliable readability across applications.

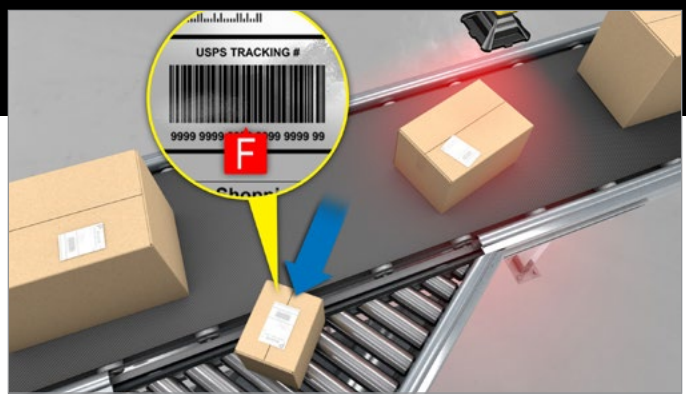
- ISO/IEC 15415 (2011, 2024)
- ISO/IEC 15416 (2016, 2025)
- ISO/IEC TR 29158 (2011, 2020, 2024)
- ISO/IEC 15426-1
- ISO/IEC 15426-2

Application Examples



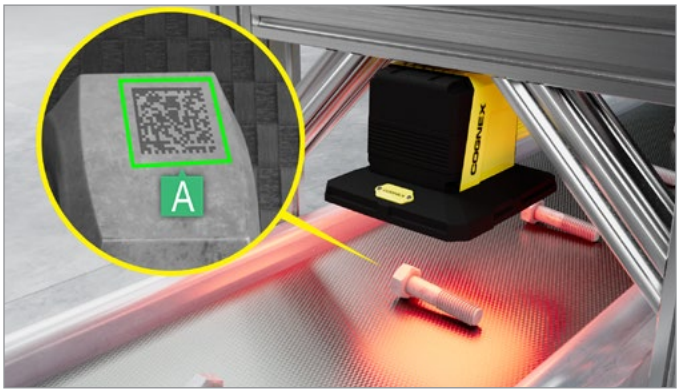
Inline label-based code verification

Verify barcodes on labels, even on curved or reflective surfaces, to ensure readability and compliance.



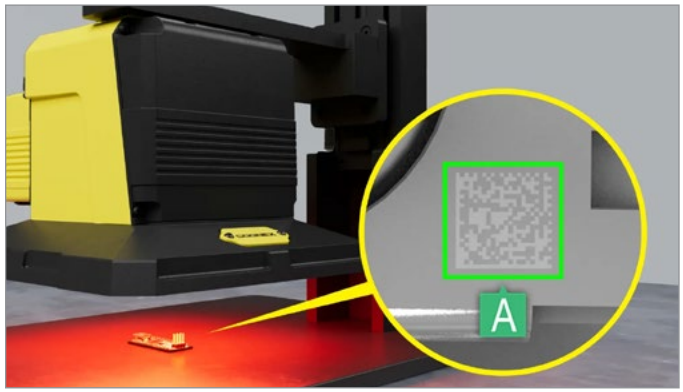
Shipping label verification

Verify and grade codes on shipping labels across warehouse and processing lines to ensure accurate delivery.



Inline DPM verification

Evaluate DPM quality in real time to support consistent marking and compliance across manufacturing processes.



Offline DPM

Verify parts and components, even on low-contrast or challenging surfaces, to support traceability and diagnose code quality issues.



Printed code sheet verification

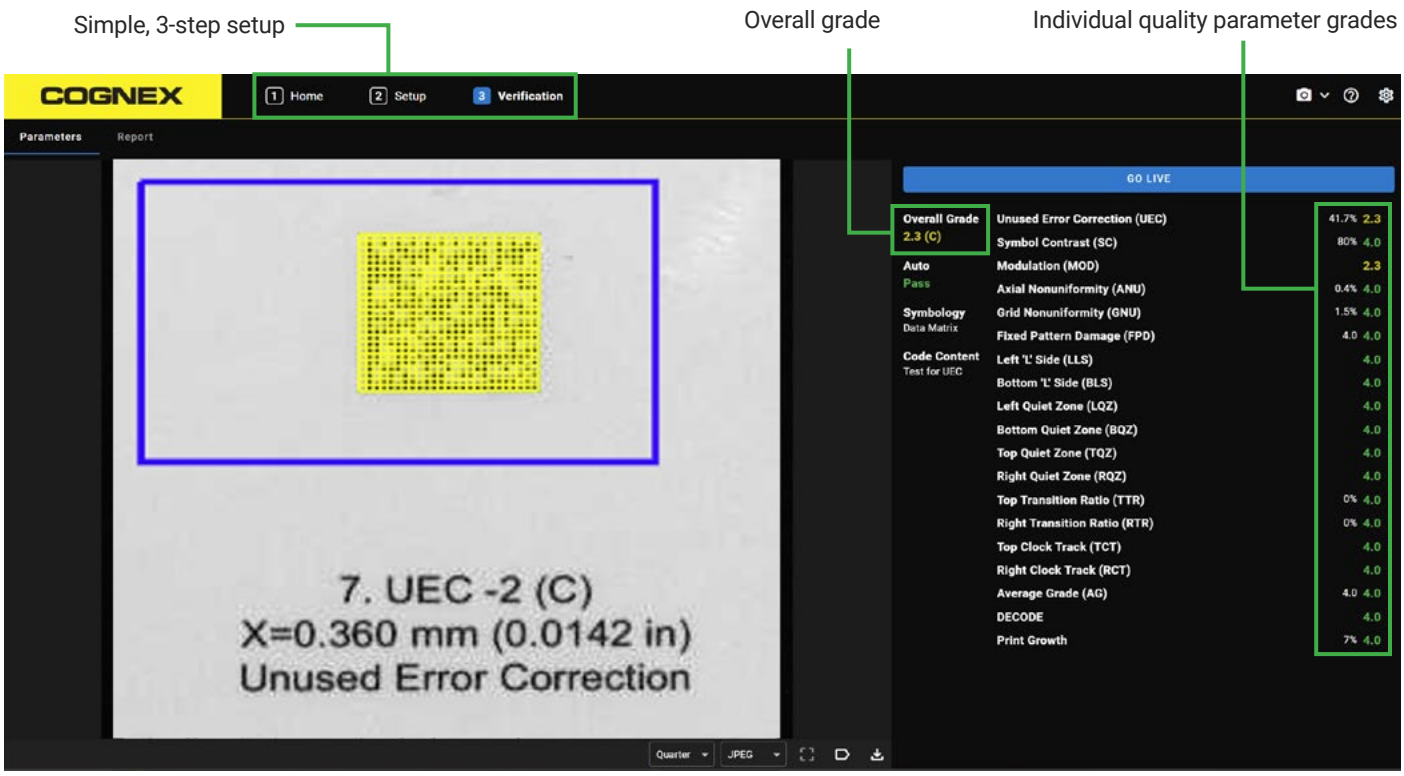
Inspect printed codes across a sheet to quickly identify print defects, evaluate code quality, and ensure compliance with industry standards.

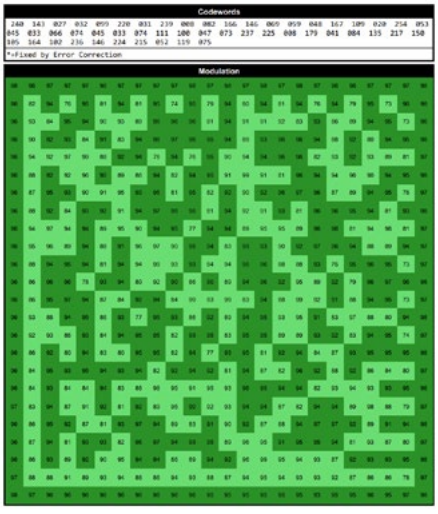


Offline label and large-format verification

Analyze barcode quality on labels and large-format parts against industry standards, identifying marking issues early to improve print quality and reduce rework.

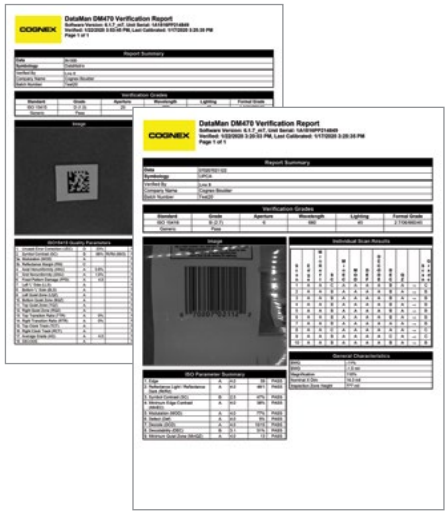
Advanced Capabilities in a Simplified Web UI





Detailed diagnostic tools

Quickly identify code quality issues with color-coded, data-rich visual diagnostics.



Customizable reports

Generate PDF or HTML reports for every verification or selectively for problematic codes.



Comprehensive archiving

Store complete ISO verification results on an FTP server or in the cloud for traceability and analysis.

DataMan 395V Series Barcode Verifier Specifications

For full technical specifications, refer to the DataMan 395V Reference Manual available on support.cognex.com.

Model	DataMan 395V-OMNI	DataMan 395V-OPT	DataMan 395V-LBL	DataMan 395V-DPM	DataMan 395V-HD
Lens Type	25 mm fixed focal length, f/4 fixed aperture, 2/3 inch sensor format, C-mount lens	12 mm fixed focal length, f/4 fixed aperture, 2/3 inch sensor format, C-mount lens	12 mm fixed focal length, f/4 fixed aperture, 2/3 inch sensor format, C-mount lens	35 mm fixed focal length, f/4 fixed aperture, 2/3 inch sensor format, C-mount lens	75 mm fixed focal length, f/4 fixed aperture, 2/3 inch sensor format, C-mount lens
Lighting	660 nm, 45°, 4-quadrant	660 nm, 45°, 4-quadrant	660 nm, 45°, 4-quadrant	660 nm, 45°, 4-quadrant 660 nm, 30°, 1-quadrant, 2-quadrant, 4-quadrant 660 nm, 90°	660 nm, 45°, 4-quadrant 660 nm, 30°, 1-quadrant, 2-quadrant, 4-quadrant 660 nm, 90°
Minimum X-Dimension	8 mil (0.203 mm)	7 mil (0.178 mm)	6 mil (0.15 mm)	3.75 mil (0.095 mm)	1 mil (0.025 mm)
Working Distance	0 mm	0 mm	60 mm	41 mm with side lighting attachment 71 mm without side lighting attachment	41 mm with side lighting attachment 71 mm without side lighting attachment
Depth of Field (Working Distance tolerance)	N/A	N/A	+/- 3 mm	5 mil symbols: +/- 1.5 mm 15 mil symbols: +/- 2.5 mm	1 mil symbols: +/- 0.2 mm 4 mil symbols: +/- 0.8 mm
Field of View	160 x 133.85 mm	98 x 82 mm	80 x 60 mm	35 x 29 mm	11 x 9 mm
Dimensions	362 x 273 x 298 mm (14.2 x 10.7 x 11.7 in)	236 x 276 x 211 mm (9.3 x 10.9 x 8.3 in)	185 x 185 x 175 mm (7.3 x 7.3 x 6.9 in)	286 x 145 x 193 mm (11.3 x 5.7 x 7.6 in)	360 x 145 x 193 mm (14.2 x 5.7 x 7.6 in)
Weight	6500 g (229.3 oz)	2050 g (72.3 oz)	945 g (33.3 oz)	1940.1 g (68.4 oz)	1900 g (67 oz)
Maximum Codes per Second	N/A	N/A	1D: 20 codes/second 2D: 10 codes/second	2D: 10 codes/second	Application Dependent
Maximum Linear Line Speed	N/A	N/A	3.6 ft/second (1.1 m/second)	4.6 ft/second (1.4 m/second)	Application Dependent
Coplanarity Tolerance	N/A	N/A	+/- 3° of coplanar	+/- 2° of coplanar	+/- 0.1° of coplanar
Image Sensor	2/3 in CMOS, global shutter, 2448 x 2048 (5 MP), 3.45 µm square pixels				
Approvals	CE, FCC, KCC, TÜV SÜD NRTL, UKCA				
Industry Standards Compliance	ISO/IEC 15415, ISO/IEC 15416, ISO/IEC TR 29158, ISO/IEC 15426-1, ISO/IEC 15426-2				
Application Standards	GS1 (including Digital Link codes and DataBar codes), MIL-STD 130, UID, UDI, HIBCC, ISO/IEC 15434, Russian Crypto-code, Custom Application Standards				
Environmental Protection	IP67, altitude: 2000 m, indoor use only, pollution degree II				
Power Consumption	24 VDC ±10%, 1.5 A maximum (Label Light, 36 W peak power consumption) Supplied by LPS or NEC class 2 only.				
Communications	2 Ethernet ports				
Symbologies	1D: UPC/EAN, Code 128, ITF-14, Interleaved 2 of 5, Code 39, Code 93, Codabar 2D: Data Matrix (ECC 200), QR Code, Micro QR Code, PDF417				

Components and accessories

Adjustable stand

The stand accommodates parts of varying sizes and shapes, allowing quick and easy positioning for verification.

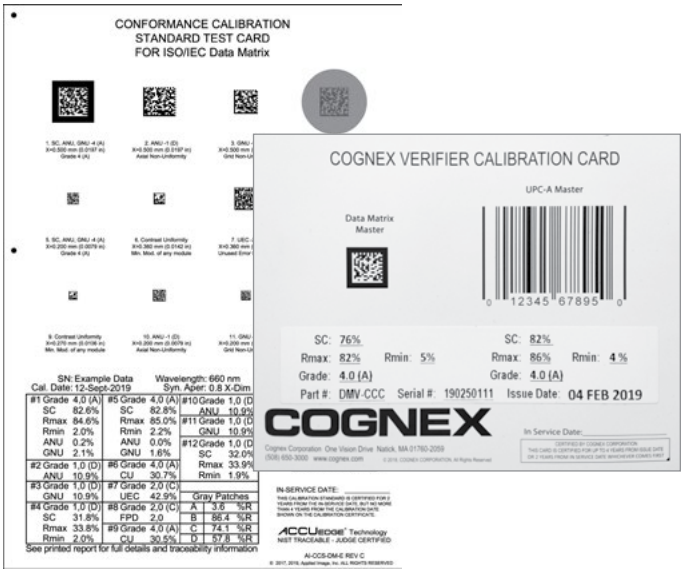
Extension arm

Optional extension arm increases the stand's maximum part height from 5.5 inches to 11.5 inches, supporting larger components.

Mounting bracket

Mounting bracket for securing DataMan 395V-LBL model to the stand.





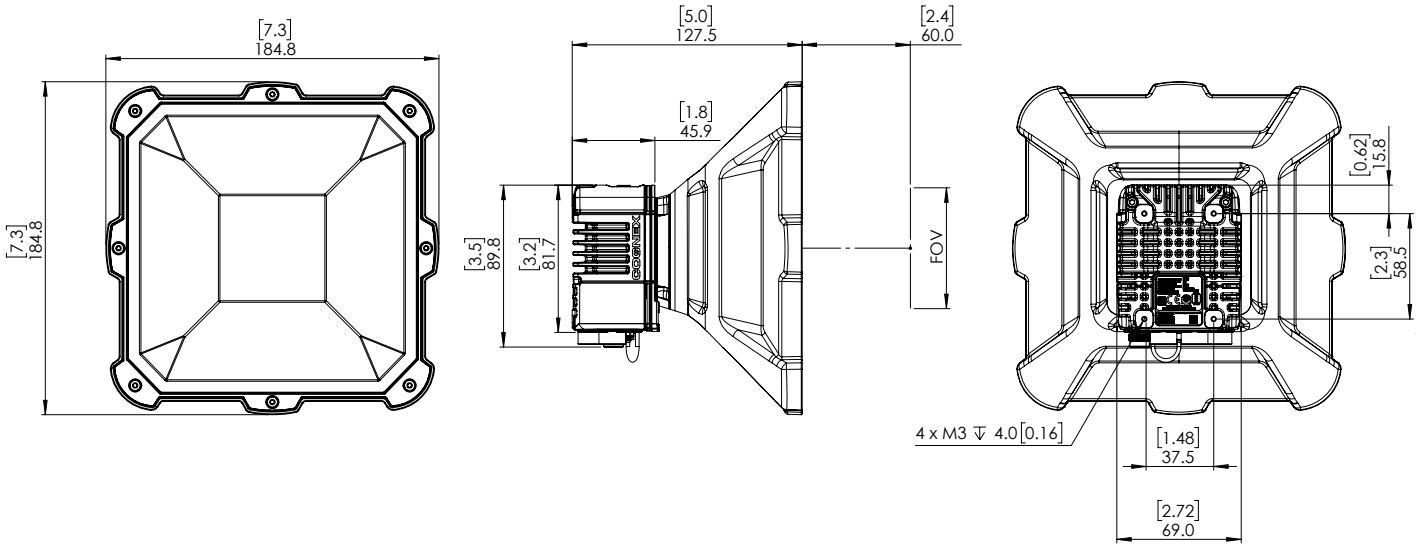
Calibration Cards

Calibration cards for maintaining measurement accuracy, including a basic Data Matrix card and a conformance calibration card.

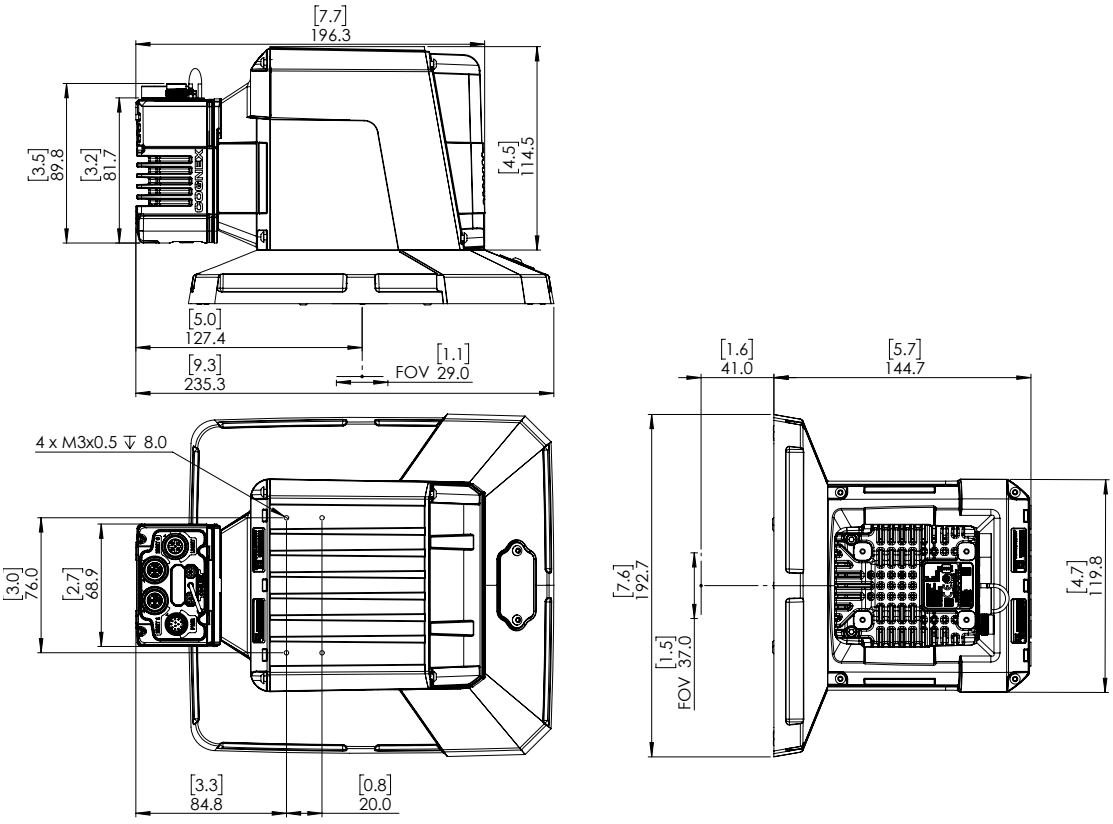
Dimensions

Get DataMan 395V Verifier CAD files in one place at support.cognex.com.

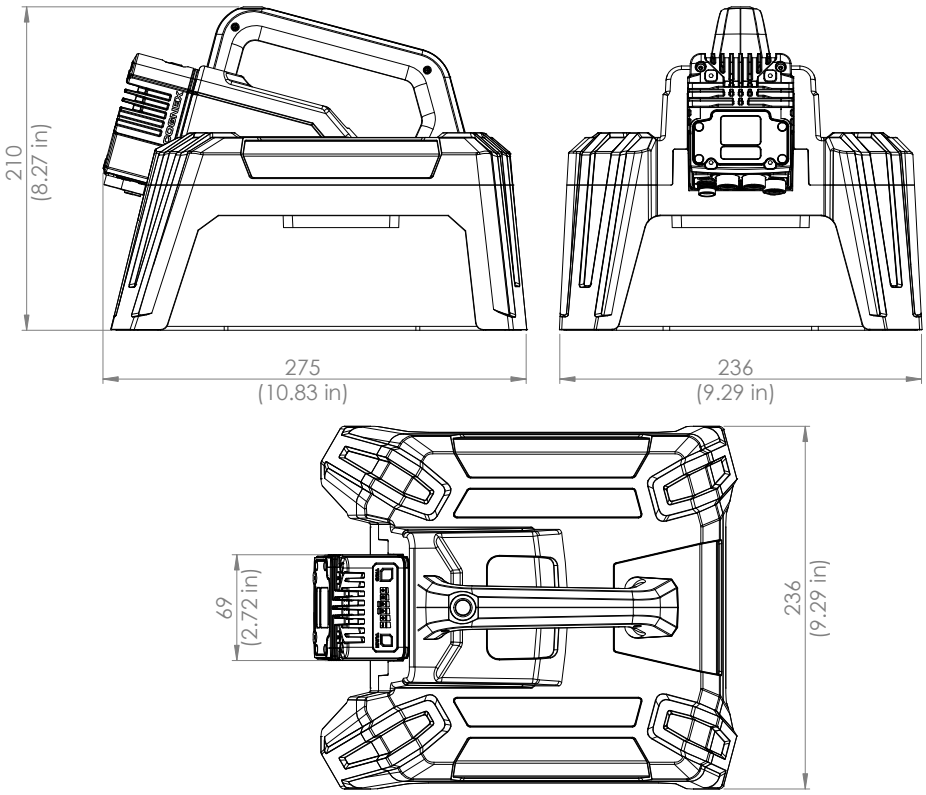
DataMan 395V-LBL



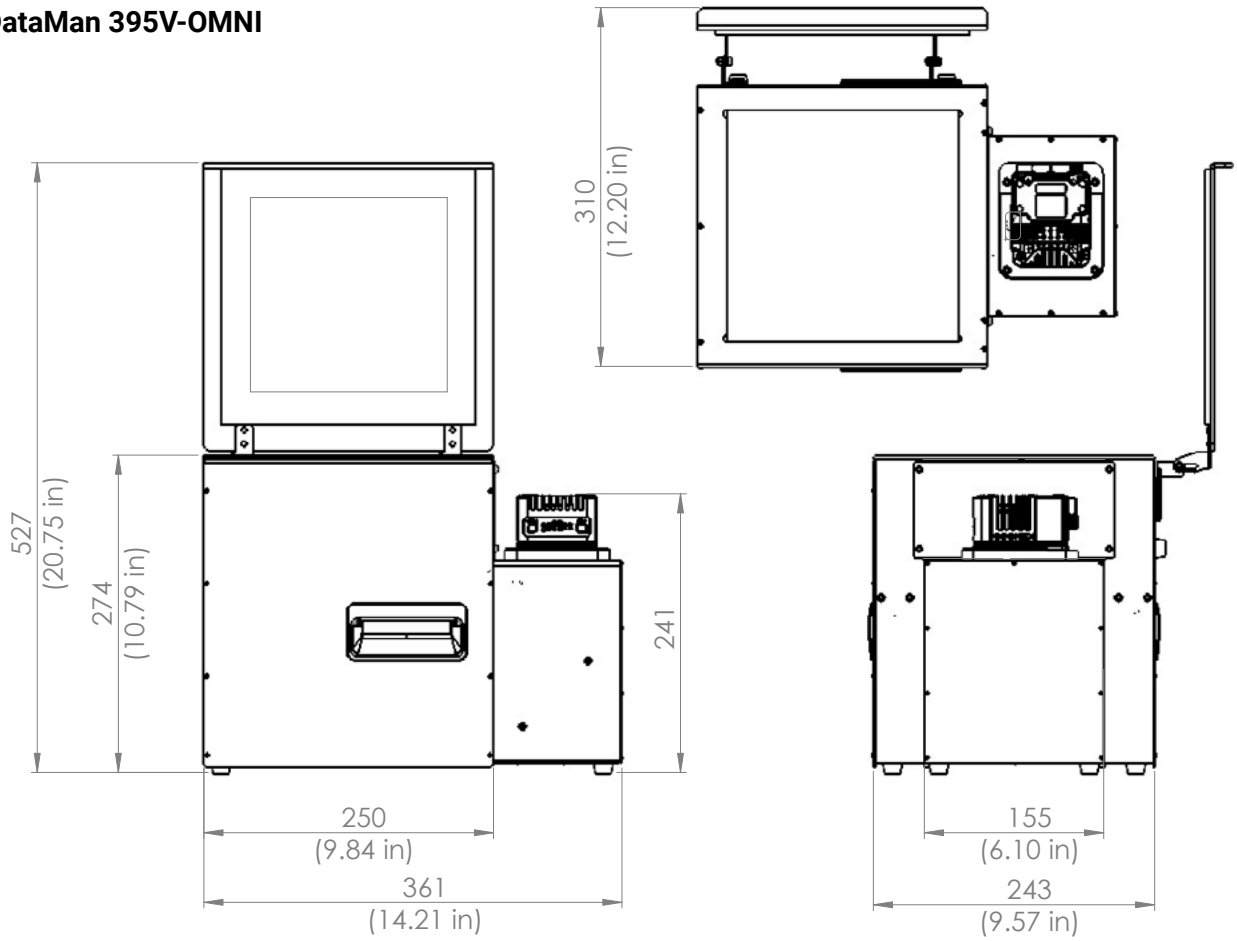
DataMan 395V-DPM



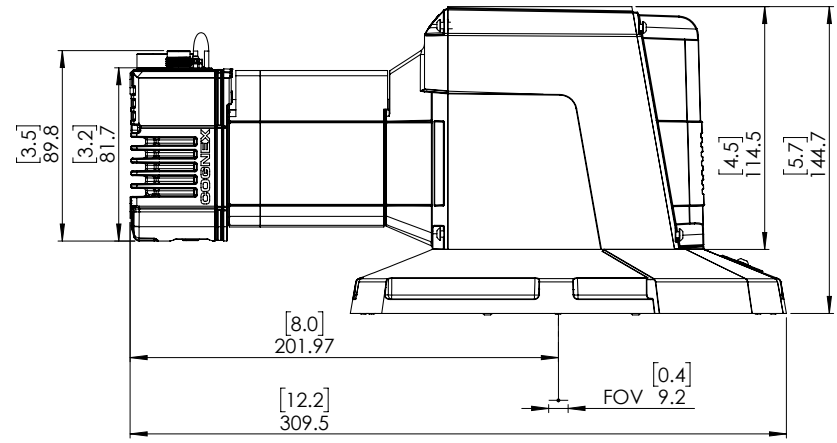
DataMan 395V-OPTI

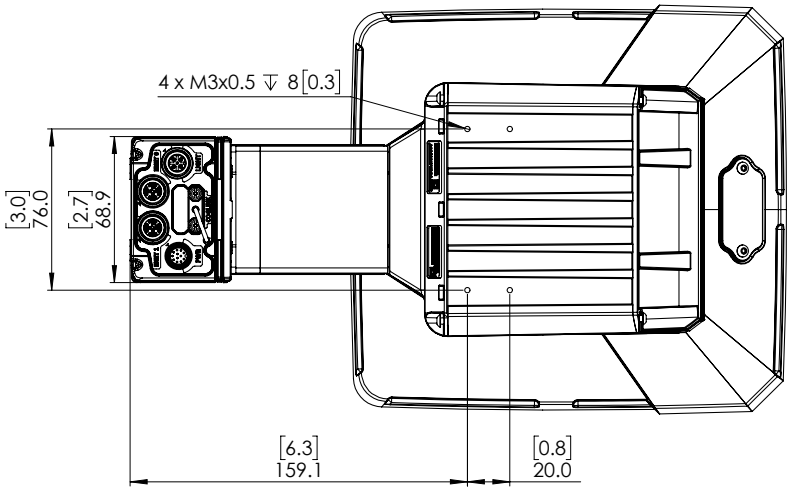


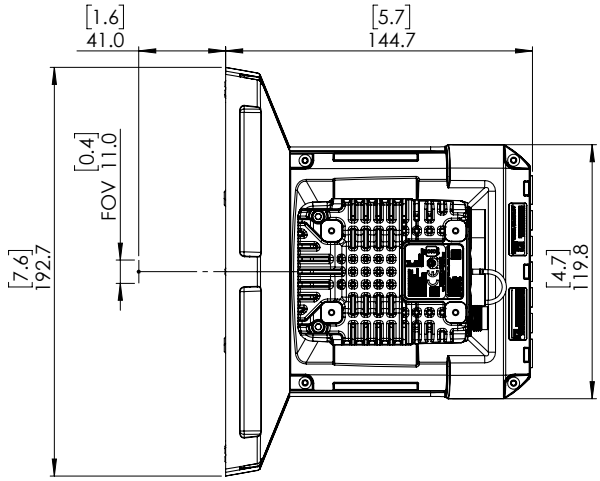
DataMan 395V-OMNI



DataMan 395V-HD







Customer Success

Industry-leading support that works the way *you* want, from self-service resources to a global network of experts

Plan & Deploy **Run & Support** **Expand & Optimize**

From initial planning to full-scale implementation, Cognex makes using advanced machine vision easy.

During planning and deployment, you'll get curated guidance on product choices and setup, single-click registration, and image-based AI training to get going quickly.

Once you're validated and in production, we keep you at peak performance with connected support and self-service training to take you from beginner to expert.

And over time, we help you scale up through a broad portfolio of products with shared interfaces and capabilities, as well as easy access to data that helps you grow and optimize across multiple facilities.

cognex.com/customer-success



Cognex Product Portfolio

Vision Systems and Software

Optimize inspection processes with Edge and Advanced AI, ensuring accurate defect detection, assembly verification, text reading, and more.

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Barcode Readers

Achieve end-to-end traceability across production and distribution, with flexible AI-powered readers and verifiers designed for ease of use and reliability.

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Industry Solutions

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

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