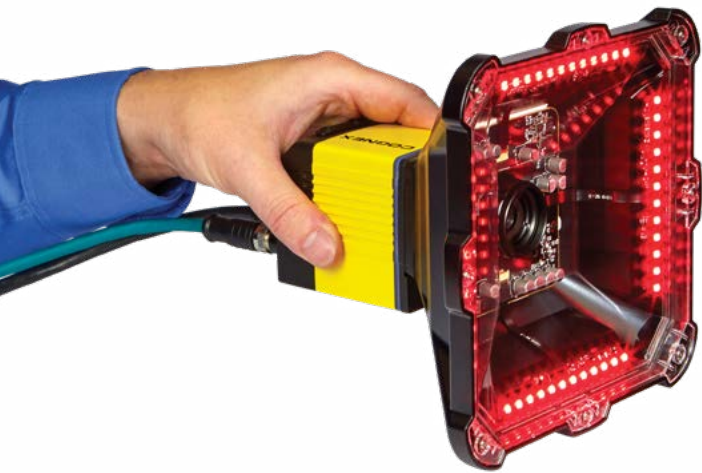


DATAMAN 475V SERIES INLINE BARCODE VERIFIER

Automate code quality assurance without slowing down production

Barcode verification is the process of grading the quality of barcodes according to globally accepted ISO standards. Cognex barcode verification technology ensures the readability and compliance of 1D and 2D barcodes. Today most companies spot check codes one at a time using an offline, operator-based verifier which can be slow, cumbersome, and prone to human error.

With the DataMan® 475V series inline barcode verifier, high-speed 100% verification and quality reporting can be done directly on your production line, preventing product waste and costly chargebacks. Immediate feedback and intuitive visual diagnostics provide operators with the ability to identify and correct printing and process control issues as they happen. And for every code verified, detailed reports can be archived to ensure traceability, statistical process control, and compliance.



Achieve compliant verification results

The DataMan 475V four-quadrant, 45-degree lighting attachment is compliant with the International Organization for Standardization (ISO) requirements for grading 1D and 2D label-based barcodes. The included calibration card and robust grading algorithms ensure that the DataMan 475V conforms to ISO and application standards while providing accurate and repeatable results.

Verify on high speed lines without sacrificing analytics

DataMan 475V provides several immediate quality assurance benefits:

- Set alerts for when code quality begins to degrade
- Grade up to 20 codes per second
- Export verification results to PLC, database, or FTP server, as CSV, HTML, PDF, or custom formats
- Improve processes with detailed analysis and diagnostic information for every code

ISO Quality Standards:

- ISO 15416
- ISO 15415
- ISO/IEC TR 29158



Auto-generate code quality data and reports

The DataMan 475V barcode verification software provides intuitive visual diagnostic information to identify one-off or trending code quality issues. It assigns an overall grade to a code based on measurements of ISO-defined quality parameters. These parameters measure several factors that affect a barcode reader's ability to identify and decode a code, maximizing read rates down-process.

Whether using for real-time diagnostics, archiving results for traceability and compliance, or aggregating for statistical process analysis, the Dataman 475V provides the flexibility and wealth of data to meet your code quality assurance needs.

The screenshot shows the DataMan 475V software interface. At the top, a green arrow points to the 'Overall grade' section, which displays 'D (1.0)' and '1.0/20/648/45'. To the right, a 'Grade Parameters' list shows various metrics with color-coded grades: 'Unread Error Correction (ERC)' is 33% B (red), 'Symbol Contrast (SC)' is 66% B (orange), 'Modulation (MOD)' is A (green), 'Reference Margin (RM)' is C (yellow), 'Axial NonUniformity (ANU)' is 97% A (green), 'Grid NonUniformity (GNU)' is 13% A (green), 'Fixed Return Damage (FRD)' is 4.0 A (green), 'Left 1/2 Side (LS)' is A (green), 'Bottom 1/2 Side (BS)' is A (green), 'Left Quiet Zone (LQZ)' is A (green), 'Bottom Quiet Zone (BQZ)' is A (green), 'Top Quiet Zone (TQZ)' is A (green), 'Right Quiet Zone (RQZ)' is A (green), 'Top Transition Ratio (TR)' is 97% A (green), 'Right Transition Ratio (RR)' is 97% A (green), 'Top Clock Track (CT)' is A (green), 'Right Clock Track (CT)' is A (green), and 'Average Grade (AG)' is 4.0 A (green). A 'Go Live' button is visible. Below the barcode, a 'Generic Acceptance Criteria' section shows 'Pass' and 'Data IN1000'. A 'Real time trend analysis' graph shows a fluctuating line. An 'Adjustable grade trend threshold alerts' bar indicates 'Overall Verification Pass 9 out of the last 100 verifications failed the current application standard. Threshold is 40/100'. A 'Pre-loaded application standards' label points to the 'Data' field.

Diagnose code quality issues quickly and easily with color-coded, data-rich visual diagnostic tools.

The first screenshot shows a data table with columns for various parameters and a color-coded grid. The second screenshot shows a barcode with a data overlay, including a table of parameters and a barcode image.

Automatically save data-rich PDF or HTML reports for every verification or only for problem codes.

The screenshots show two reports: a PDF report with a QR code and a table of data, and an HTML report with a similar layout.

Archive the full data from each ISO verification result to an FTP server or the cloud.

The screenshot shows a data table with a colorful heatmap overlay, representing the data from each ISO verification result.

SPECIFICATIONS

Symbologies	1D: UPC/EAN, Code 128, ITF-14, I25, Code 39, Code 93, Codabar 2D: Data Matrix (ECC 200), QR Code, Micro QR Code
Field of View	80 x 60 mm
Working Distance	60 mm
Depth of Field (WD Tolerance)	+/- 3 mm
Minimum X-Dimension	6 mil (0.15 mm)
Image Sensor	Sony IMX264LLR 5 MP (2448 x 2048 pixels) 2/3 inch CMOS, global shutter 8.8 mm x 6.6 mm (H x V); 3.45 μ m square pixels
Lens Type	12 mm fixed focal length, f/4 fixed aperture, 2/3 inch sensor format, C-mount lens (users cannot alter lens)
Lighting Types	660 nm, 45°, 4-quadrant
Communications	Ethernet
Power Consumption	24 VDC \pm 10%, 1.5 A max (36 W peak)
Weight	945 g
Dimensions	185 x 185 x 175 mm
Environmental Protection	IP65
Approvals	CE, UL, TUV, FCC, KC
Industry Standards Compliance	ISO/IEC 15415, ISO/IEC 15416, ISO/IEC TR 29158, ISO/IEC 15426-1, ISO/IEC 15426-2
Application Standards	GS1, MIL-STD 130 UID, UDI, HIBCC, ISO 15434, Russian Crypto-Code, Custom Application Standards
Maximum Codes per Second	1D: 20 codes/sec* 2D: 10 codes/sec*
Maximum Linear Line Speed	3.6 ft/sec (1.1 m/sec)
Coplanarity Tolerance	+/- 3° of coplanar

* Maximum symbols per second is dependent upon symbol size, mil size, substrate, symbology, and other application factors.

COGNEX

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 +1 844-999-2469
Brazil +55 (11) 2626 7301
Mexico +01 800 733 4116

Europe

Austria +49 721 958 8052
Belgium +32 289 370 75
France +33 1 7654 9318
Germany +49 721 958 8052

Hungary +36 800 80291
Ireland +44 121 29 65 163
Italy +39 02 3057 8196
Netherlands +31 207 941 398
Poland +48 717 121 086
Spain +34 93 299 28 14
Sweden +46 21 14 55 88
Switzerland +41 445 788 877
Turkey +90 216 900 1696
United Kingdom +44 121 29 65 163

Asia

China +86 21 6208 1133
India +9120 4014 7840
Japan +81 3 5977 5400
Korea +82 2 530 9047
Malaysia +6019 916 5532
Singapore +65 632 55 700
Taiwan +886 3 578 0060
Thailand +66 88 7978924
Vietnam +84 2444 583358

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