

End-to-end barcode reading and sensing solutions for automation and OEM applications



Traceability

OMRON has a strong history of technology innovation, and leverages our expert position to help manufacturers and labs create error-free operations using innovative, analytics-driven track, trace and control solutions.

Data acquisition and control solutions

Our barcode, machine vision and verification products boost manufacturing efficiency and quality control to a whole new level. We help our customers cut costs, monitor quality and increase production flow with easy-to-implement solutions. Used in electronics manufacturing, clinical instruments and product packaging, our solutions facilitate critical production-level applications such as quality control, work-in-process monitoring, component traceability, sortation and lot tracking.

Technology leadership

OMRON continues to be a recognized technology leader through our continuous development of new products in machine vision, auto ID and barcode quality verification.

Quality focus

We are proud of our unfaltering commitment to quality and our strong record maintaining ISO 9001 certification and meeting global regulatory compliance requirements.

Global Strength

OMRON has a global reach that includes expert customer service, engineering support and services. This builds upon 35 years of experience implementing traceability projects in many industries across all Global Regions.

Certified GS1 solution partner

As a member of the U.S. GS1 Solutions Partner Program, OMRON has the experience and knowledge to provide manufacturers with solutions and guidance to address barcode verification applications and compliance with GS1 standards.



1D/2D symbols and direct part marks

Linear (1D) barcodes have been in commercial use since the 1970s and are the most common symbologies used for automatic identification. Increasing numbers of manufacturers are using two-dimensional (2D) symbols, such as Data Matrix, that offer greater placement flexibility and increased data capacity.

Machine-readable symbols generally fall into the categories of linear barcodes, stacked symbols, 2D symbols and Optical Character Recognition (OCR) fonts. A few examples of each are shown below (symbologies are not to scale).

OMRON provides fast, reliable reading solutions for all symbologies and OCR. Our products read all popular linear barcodes and 2D symbols printed or marked by any means and verify them to industry standards.

1D and 2D symbology standards

- ISO/IEC 15416
1D Print Quality Standard
- ISO/IEC 15415
2D Print Quality Standard
- Automotive Industry Action Group: AIAG B-4
Parts Identification and Tracking
- U.S. Department of Defense: IUID MIL-STD-130
Permanent and Unique Item Identification
- Electronics Industry Association: CEA-706
Component Marking
- Clinical/Laboratory Standards Institute: AUTO2-A2
Bar Codes for Specimen Container Identification
- ISO/IEC 16022
International Symbology Specification
- ISO/IEC 15434
Symbol Data Format Syntax
- Society of Aerospace Engineers: AS9132B
Data Matrix Quality Requirements For Part Marking
- ISO/IEC 29158:2020
Direct Part Mark Quality Guideline

Note: Symbologies on this page are not shown to scale and are not intended for testing purposes.

LINEAR BARCODES



CODE 128



CODE 39



PHARMACODE



CODE 93



INTERLEAVED 2 OF 5



UPC

STACKED SYMBOLOGIES



PDF417



GS1 DATABAR (STACKED)



GS1 DATABAR (COMPOSITE)



MICRO PDF417

2D SYMBOLOGIES



DATA MATRIX



QR CODE



AZTEC CODE



DOTCODE

OCR FONTS

OCR-A

1 2 3 4 A B C D

Alphanumeric
(+4 currency char.)

OCR-B

1 2 3 4 A B C D

Alphanumeric
(+4 currency char.)

MICR E-13B

1 2 3 4 A B C D

Numeric
(+4 special char.)

SEMI M12

1 2 3 4 A B C D

Alphanumeric
(+4 currency char.)

DIRECT PART MARKS

Direct part marks (DPM) are typically 2D Data Matrix symbols permanently marked by such methods as dot peen or laser/chemical etch onto substrates including metal, plastic, rubber or glass. OMRON offers a comprehensive family of readers and verifiers with illumination and decode algorithms specifically designed for difficult direct part marks.



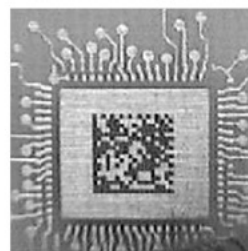
Thermal print on foil



Inkjet on plastic



Dot peen on metal



Laser etch on metal



Inkjet on plastic

Barcode verification and label inspection

Legible, accurate barcodes and text have never been more important than they are today. Inconsistencies in quality can lead to process inefficiencies and downtime. Unreadable barcodes may cause a need for constant rescanning, relabeling of products or even manual entry of critical information by a human operator. Inconsistent quality may also result in expensive vendor non-compliance fines and other penalties and cause reputation damage.

Readability of barcodes is determined by how well a barcode reader can decode the data stored in a symbol. Operators can save valuable time and effort when decoding reading issues if they understand the primary reasons for decoding failures. Once the cause of barcode unreadability is defined, it can be addressed with simple preventive measures.

OMRON barcode verifiers are embedded off-line or in-line solutions that include camera, software and precision illumination specifically designed for the verification of 1D/2D codes and direct part marks to ISO/IEC standards. In-line inspection systems feature OCR, OCV and blemish detection that together provide 100% label inspection against a label reference image and expected label content.

Further information can be found at <https://automation.omron.com/en/us/products/families/verification-and-print-quality-inspection-solutions>

Benefits of barcode verification systems

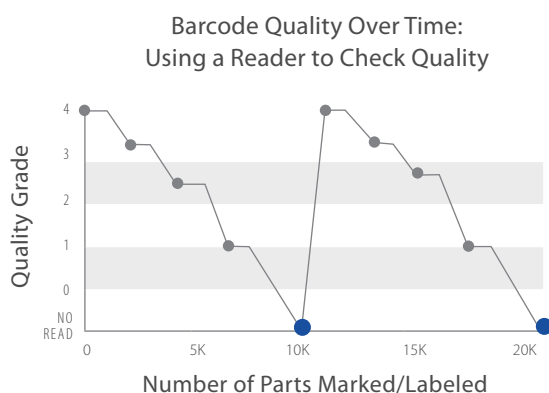
- Comply with symbol quality industry standards and directives such as ISO 15415, ISO 15416, ISO 29158, FDA UDI, FDA FSMA, DOT Label Content, and others.
- Maximize efficiency of your manufacturing process
- Control quality in real time as you verify the output from your printer or code marking equipment
- Minimize returned goods due to bad labels
- Increase customer satisfaction
- Produce informative verification reports



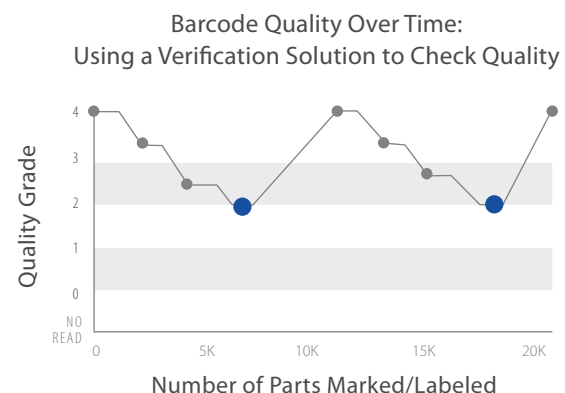
THE IMPORTANCE OF VERIFICATION

Automated data capture is critical to a company's success, and the results of scanning failure can have a serious impact. Without verification, bad barcodes are not identified until they are unreadable. By the time a bad barcode is identified, thousands of poor-quality barcodes may have already escaped down the line. With verification, bad barcodes are prevented from being applied to the product, eliminating the chance for future failures.

WITHOUT VERIFICATION



WITH VERIFICATION



Machine vision inspection and guidance

100% quality control in manufacturing reduces costs and ensures a high level of customer satisfaction. With its wide range of capabilities and applications, machine vision is becoming the standard discipline for automating inspection and other modern industrial processes, through complex image capture and analysis. While human inspectors working on assembly lines can visually inspect parts to judge the quality of workmanship, machine vision systems use a variety of advanced hardware and software components to perform similar tasks at high speeds with greater precision.

OMRON holds one of the world's most extensive patent portfolios for machine vision technology, including hardware design, software algorithms and machine vision illumination. Our Visionscape® brand of machine vision software and hardware is an industry pioneer, and works in concert with AutoVISION® software to improve automated technical identification, inspection, measurement, and guidance capabilities to the benefit of manufacturers worldwide.

Further information can be found at <https://automation.omron.com/en/us/products/category/machine-vision>

Machine vision capabilities

■ Identify

- Decode all standard 1D and 2D symbols
- Optical Character Recognition (OCR) and Verification (OCV)

■ Inspect

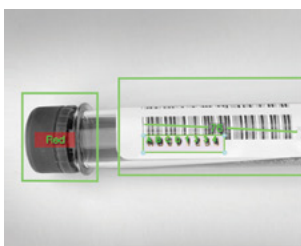
- Color or flaw detection
- Absence/presence of parts or components
- Object location and orientation

■ Measure and Gauge

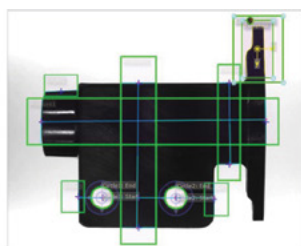
- Measure dimensions or fill levels
- Preconfigured measurements such as line intersection or point-to-point distance

■ Guide

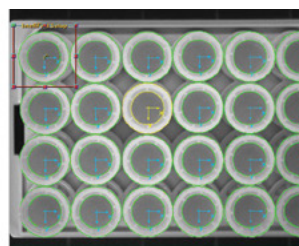
- Output coordinates to guide machines or robots to precise locations



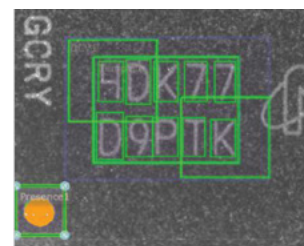
Color detection and OCR reading



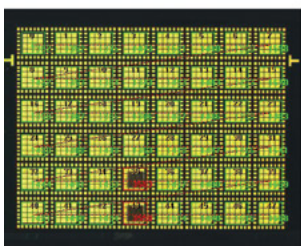
Part location and measurement



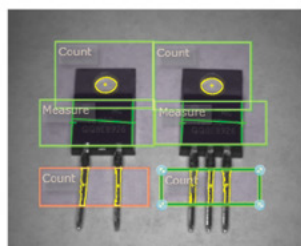
Counting



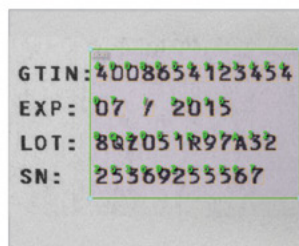
Optical Character Verification (OCV)



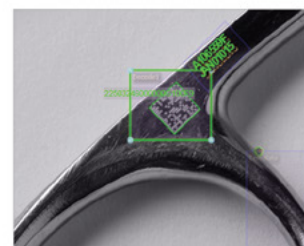
Grid-based inspection and reject mark detection



Shape inspection



OCR reading



1D/2D and DPM symbol decoding and grading

V780

RFID solutions for traceability

A radio-frequency identification (RFID) system consists of an interrogator (or reader) and a tag that is composed of a microchip and an antenna. RFID can improve operational efficiency in a variety of applications, including traceability and machine safeguarding.

Traceability uses

Unlike the barcodes in DPMs and printed labels, RFID tags let users write information as well as read it. When traceability information must be regularly updated, RFID might be the optimal choice.

RFID also offers more flexibility with respect to positioning, since it allows for objects to stand between the reader and the tag (except for objects made of metal or those with high water content).

Further information can be found at <https://automation.omron.com/en/us/products/families/rfid-solutions>

An industry-ready option

RFID tags work well in very harsh environments, including high ambient temperatures and high IP protection applications. The ability to read or write to a large number of tags simultaneously (at read ranges up to 6m) can be deployed to quickly read individually tagged parts or packages passing through a portal.

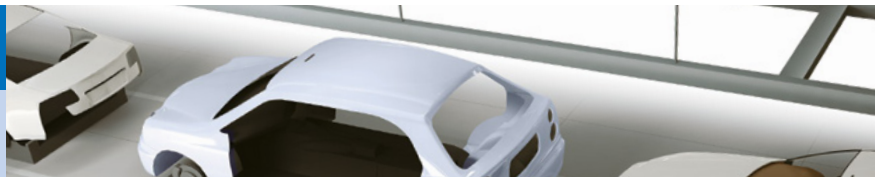
OMRON offers both HF and UHF ISO 180003 compliant RFID systems with direct connectivity to automation controllers in a rugged and compact form factor.

Applications

Automotive

Suitable for a mixed model production strategy

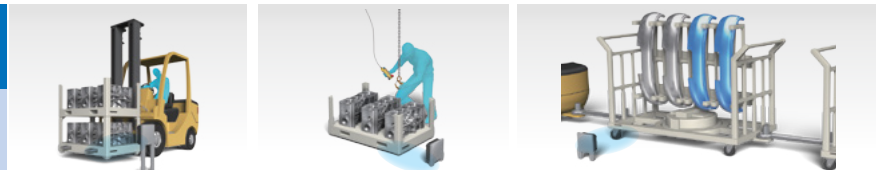
The wide communication range and focus mode enable automotive chassis to be reliably detected from several meters away.



Part tracking and management

Accurately supply parts even in high-mix production

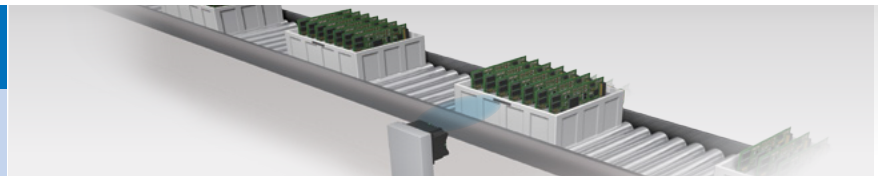
Track part pallets and racks through production. Bright LEDs give operators indication of good reads.



Material handling

Identify product for conveyor diverters and sortation systems

Identify work in process product in harsh environments where bar code readers or vision can not be applied.



Hanging conveyance

Identify product while the read distance changes due to conveyance method

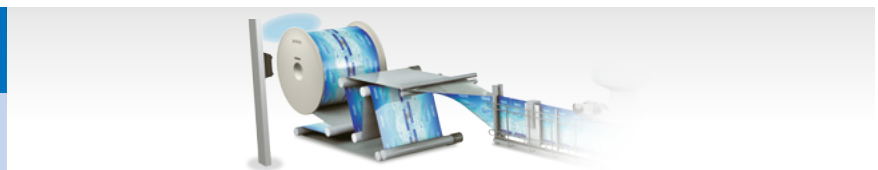
Product can be identified while moving and without line of sight from the tag to the V780 reader.



Error proofing

Make sure the correct raw material or assembly is used in production.

Product going into machine areas or dock portals can be identified with up to 64 unique RFID tags in one read.



Regulations for UHF wireless (radio regulations)

RFID systems as well as mobile phones and TVs must comply with national radio regulations. The V780 Series currently complies with radio regulations in many countries. For the list of countries where V780 is available, please contact your Omron representative.

Sensing

Sensing solutions for traceability

Traceability depends on more than identifying an item. Sensors confirm the physical event behind the record -that the correct part, package, pallet or sample is present, positioned and ready for the next process step.

Sensors create trustworthy production events

- Trigger barcode, RFID and vision capture at the exact process point. Validate presence, orientation, position, height, fill level and motion. Confirm pass/fail conditions before data is written upstream. Reduce manual entry and strengthen data integrity.
- Help isolate issues by station, time window and process condition.

Where sensing fits in the solution

Sensors are the data-capture and event-validation layer. They do not replace barcode, RFID or vision; they make those technologies more reliable by confirming when and why data should be captured.

- Detect product arrival and trigger the read Verify
- process conditions before release Feed PLC,
- SCADA, MES or cloud records Support error-
- proofing and root-cause analysis

OMRON sensing technologies for traceability



Photoelectric sensors

Detect product presence and positioning, confirm label and cap location.



Fiber-optic sensors

Presence, absence detection in tight spaces and detect small objects at high speeds.



Proximity sensors

Confirm metal part, fixture or pallet presence in harsh areas.



Measurement sensors

Measure height, distance, fill level or position for quality records.



Rotary encoders

Track motion, count, position and indexing for serialized flow.



Ultrasonic sensors

Detect objects or levels when color, shine or transparency varies.

Traceability data flow



Solutions for packaging and labeling

Packaging systems are under constant pressure to ensure the quality of primary, secondary and final packaging while maximizing production flow. OMRON barcode and machine vision products are commonly used throughout automated packaging applications to monitor, track and trace critical data that helps maximize both quality and productivity.



Machine Vision

Inspect Packaging Integrity and Label Quality

Cap Presence and Fill Level

Blemish and Color Check

Text (OCR and OCV)

Defect Detection

Label Presence and Position



Sensing

Trigger and Verify Packaging Events

Product presence trigger cap or closure detection fill, label and position checks



Barcode Verification

Verify Barcode Quality and Compliance

ISO/IEC Print Quality

GS1, HIBCC Compliance

Data Accuracy



Barcode Reading

Read Any Linear Code or 2D Symbol

Product Identification

WIP Tracking

Item Traceability

Product Serialization

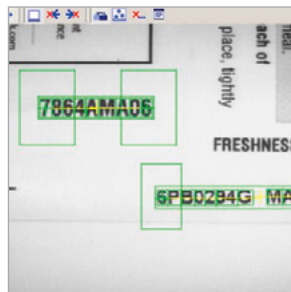
Date/Lot Tracking



INDUSTRIES SERVED



Food and Beverage



Pharmaceutical Manufacturing



Medical Devices



Fast-Moving Consumer Goods (FMCG)

Solutions for electronics manufacturing

Industry leaders within electronics depend on lean manufacturing and efficient use of resources to produce the highest quality products. Effective shop floor data collection is a competitive advantage. OMRON barcode and machine vision solutions provide reliable product inspection and traceability to support electronics manufacturing throughout the entire production process.



Machine Vision

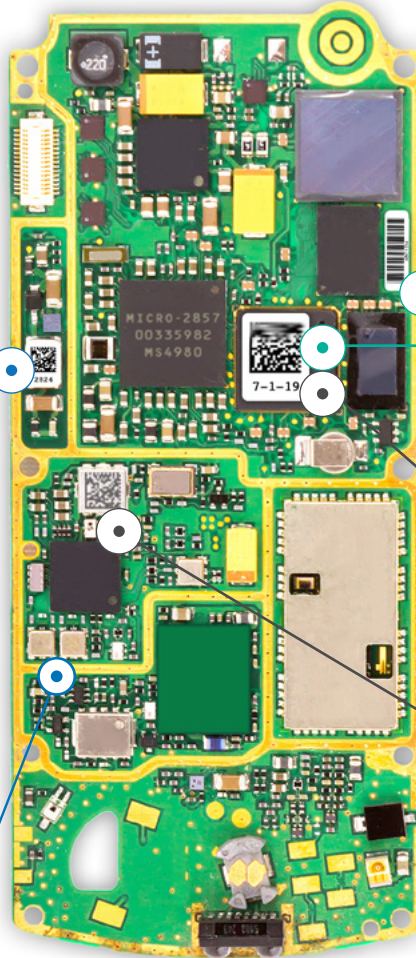
Inspect Parts and Assembly

Label Presence and Position
Text (OCR and OCV)
Reject Identification
Absence/Presence of Components
Dimensional Testing



Sensing

Detect Parts, Boards and Carriers
PCB and pallet presence Indexing
and read trigger



Barcode Reading

Read Any 1D/2D
Symbol or DPM

Component Traceability
WIP Tracking
Recall Management
Time/Date Stamping

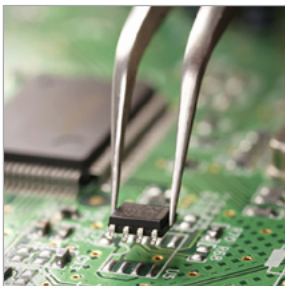


Barcode Verification

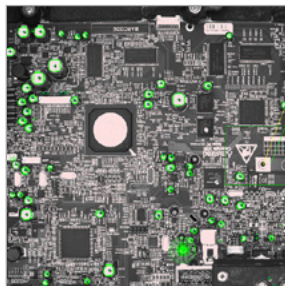
Verify Barcode Quality
and Compliance

ISO/IEC Print Quality
DPM Mark Quality
Data Accuracy
Data Sequence

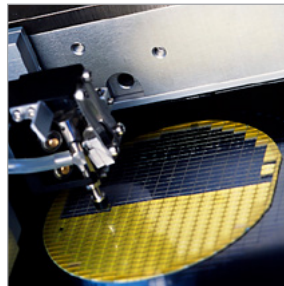
INDUSTRIES SERVED



Consumer Electronics



Automotive Electronics



Semiconductor



Machine Builders

Solutions for life sciences and medical

Manufacturers within the life sciences and medical industries require 100% data integrity and extremely reliable components that are small enough to fit into their instruments. From reading labels on specimen tubes or directly marked surgical instruments, to automated presence/absence detection of microtiter plates, manufacturers depend on the highest levels of performance and flexibility with minimal integration effort.



Machine Vision

Inspect and Enable Guidance

- Cap Color and Presence
- Text (OCR and OCV)
- Sample Location
- Fill Level
- Label Quality
- Measurement for Guidance



Sensing

Confirm Samples and Consumables

- Tube and Rack Presence
- Cap and Liquid level Trigger



Barcode Reading

Read Any Linear Code or 2D Symbol

- Sample or Tube Carrier ID
- Reagent ID
- Match Test to Sample
- Sample Routing
- Sample Tracking



Barcode Verification

Verify Barcode Quality and Compliance

- Symbol Quality and Legibility
- GS1, HIBCC Compliance
- Data Content and Format
- Compare Data to Match String

INDUSTRIES SERVED



Lab Automation



Clinical Chemistry



Reagent and Kit Tracking



Medical Devices

Solutions for Factory Automation

Solutions for factory automation

Production automation, lot tracking and component traceability are all common requirements for today's busy factories and assembly plants. Many suppliers choose OMRON for reliable product inspection and data capture, enabling plant floor data tracking, outbound product traceability and part quality requirements from manufacturers.



Machine Vision
Inspect Parts and Assembly

- Dimensional Inspection
- Text (OCR and OCV)
- Part Presence and Position
- Label Presence and Position
- Defect Detection



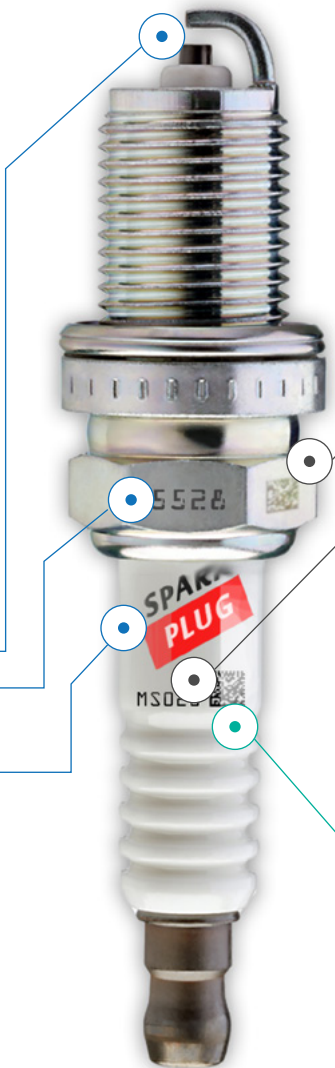
Barcode Verification
Verify Barcode Quality and Compliance

- Symbol Quality and Legibility
- Direct Part Mark Quality
- Data Sequence
- Data Accuracy



Barcode Reading
Read Any 1D/2D Symbol or DPM

- Part Traceability
- WIP Tracking
- Recall Management
- Bill-Sheet Reading



INDUSTRIES SERVED



Automotive Assembly



Powertrain Manufacturing



Aerospace and Defense



Consumer Goods

VHV5

VHV5 Ultra-High Performance Barcode Reader



VHV5

Ultra-high performance autofocus multicode reader and in-line verifier for high-speed production lines and challenging direct part marks. Designed for fast setup, rugged traceability applications and industrial connectivity.

Sensor	Speed	Focus	Power/IP	Connectivity
2.3 MP or 5 MP global shutter	Up to 80 FPS	Autofocus or fixed focus	PoE+ or 24 VDC IP69K	RS-232C, Ethernet, EtherNet/IP, PROFINET

OTHER FEATURES

- X-Mode decoding for difficult labels and direct part marks
- WebLink interface for setup, testing and runtime monitoring
- Built-in lighting with optional external lighting support

V440 High Resolution/High Speed Barcode reader



V440

High Resolution Barcode Reader with C mount lens options and external lighting accessories for wide field of view or tiny barcode reading. Industrial Ethernet connectivity.

Read Range	Focus	Sensor	Color	Power	IP Rating	Connectivity
Up to 2.5m, lens dependent	Fixed	5MP mono, global shutter	Mono only	PoE or 24 VDC	IP40	RS-232C, Ethernet, EtherNet/IP, PROFINET

Communication and Data Integration

Communication of traceability information from the sensor, such as barcode readers, to a higher level database and application via OPC-UA or MQTT protocol is possible. Connectivity of OMRON sensors to OMRON NX controllers via EtherNet/IP enables further connectivity to server or cloud based applications.

- Simple to send and receive data using function blocks
- MQTT function blocks make it easy to communicate with an MQTT broker locally or in the cloud.
- connectivity to other controllers, devices, SCADA, iOS, Windows, and other operating systems.



Handheld Readers

Handheld barcode readers

OMRON handheld barcode readers feature the latest technology for decoding 1D and 2D symbols. From simple data tracking for inventory control to aggressive reading of the toughest direct part marks, we have a handheld solution for any track, trace, and control application.


V460 Handheld Reader
CORDED

Intelligent & Rugged Auto-Everything Barcode reader with Built-in Ethernet Connectivity.


V450 DPM Handheld Reader
CORDED

Ultra-rugged handheld with industry-leading DPM decoding performance and intuitive WebLinkPC interface.


V450 DPM Handheld Reader
CORDLESS

Easy-to-use wireless option for the high-performing DPM handheld with Bluetooth support and Wi-Fi friendly mode.


V410

High Resolution Handheld Barcode Reader.

1D/2D	DPM	Connectivity	Enclosure	Read Range
✓	✓	Built-in: EtherNet TCP/IP EtherNet I/P PROFINET	IP65	10 in (254 mm)
✓	✓	USB, RS-232 or Ethernet/ IP, PROFINET with External Adapter	IP67	6 in (150 mm)
✓	✓	USB, RS-232 or Ethernet/ IP, PROFINET with External Adapter	IP67 Cradle: IP65	6 in (150 mm)
✓	✓	USB, RS-232	IP42	11.5 in (290mm)



Highlighted
Product

V460 HANDHELD BARCODE READER

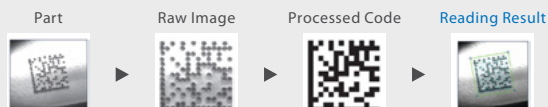
All in one rugged industrial handheld barcode reader

- Superior out-of-box performance
- Predictive Auto-focus and Intelligent Lighting
- Hands Free Intelligent Presentation Mode
- Built-in PoE with Fieldbus Communications

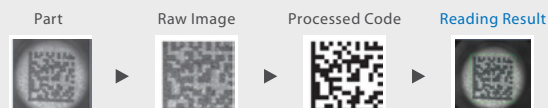
Dome lighting can be selected in several color options


X-Mode Algorithms
Example 1

Dot Peen
on Curved Surface


Example 2

Laser Etch



X-Mode algorithms ensures that all Direct "Part Marks can be read as easily as a printed label.

Barcode verification

OMRON LVS® Barcode Verifiers are fully-integrated off-line solutions designed for the verification of 1D and 2D symbols and direct part marks to application standards such as GS1, HIBC, USPS and ISO/IEC 15415/15416. Barcode Verification Kits offer flexible integration options for off-line or in-line grading to symbology standards or user-defined parameters.

	1D/2D	DPM	GS1 Data	GS1 Certified	Manage Permissions	Field of View
 LVS-9510 All-in-one desktop verifier for off-line ISO/IEC barcode verification.	✓		✓	✓	✓	Varies By Model
 LVS-9585 High-performance handheld verifier for 1D/2D and direct part mark (DPM) verification to ISO/IEC and GS1 standards. Includes red dome, 30 degree and white dome lighting. Ultra-HD model for 2 mil codes.	✓	✓	✓	✓	✓	3 in (76 mm) horizontal, 2.25 in (57 mm) vertical for non-DPM; 1.75 in (44 mm) horizontal, 1.75 in (44 mm) vertical for DPM
 LVS-9580 All-in-one handheld verifier for flexible verification of multiple printed 1D/2D symbols and direct part marks (DPM). Can be used with a tablet for portability.	✓	✓	✓	✓	✓	3 in (76 mm) horizontal, 2.25 in (57 mm) vertical for non-DPM; 1.75 in (44 mm) horizontal, 1.75 in (44 mm) vertical for DPM
 Barcode Verification Kits Modular solutions for off-line or in-line barcode grading to ISO/IEC standards or user-defined parameters. Includes MV-4000 smart camera and lens paired with NERLITE Smart Series light, mounting bracket, and AutoVISION software.	✓	✓				Varies By Model



OTHER FEATURES

- GS1 US® and 21 CFR Part 11 compliant-ready
- Verifies to over 20 global application standards and over 30 symbology types
- Enables U.S. FDA UDI (Unique Device Identification) compliance for Medical Device Manufacturers and Labelers
- Provides comprehensive and user-friendly barcode defect analysis to help guide corrections
- Includes a local report archive, as well as an external database interface to provide flexible quality reporting



V275

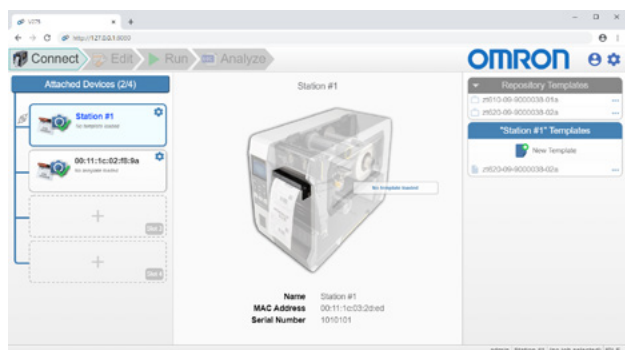
Printer Integrated Label Inspection Systems

Ensure 100% label quality in real time with OMRON LVS® Print Quality Inspection Systems. Our in-line ISO verification solutions help manufacturers catch defective labels immediately and maintain print quality standards throughout the printing process. Systems range from add-on hardware to custom-integrated solutions. These systems are designed to be installed directly at the point of printing, whether mounted on a printing press or integrated into a thermal printer.



V275
Modular print and barcode quality inspection system integrated directly into thermal printers.

1D/2D Read & Verify	OCR/OCV	Blemish Detection	Field of View	Equipment Mounting & Integration
✓	✓	✓	6.6" / 168 mm Maximum Inspection Width, 7.1" / 180 mm Maximum Web Width	Thermal Printers: Zebra ZT600 Series



OTHER FEATURES

- Automatically inspects both barcode quality and label content including OCR, OCV and blemishes
- Automatically stops the printer and alerts the operator in the event of a defective label
- Compares every label to a master image to detect variances
- Strike out and re-print bad labels
- Intuitive defect analysis that quickly, accurately and reliably pinpoints label print quality problems
- Suitable for validated environments with IQ/OQ/PQ documentation and multiple security levels for managing user permissions
- Data integration with Label Management Software



How Much Space Does Your Symbol Need?

Data Matrix symbols set the standard for reliable, accurate and space-efficient identification. Because information is encoded in two dimensions, Data Matrix has much more data capacity than common linear symbologies such as UPC or Code 39. For example, 50 characters can be encoded in a Data Matrix symbol measuring just 6mm by 6mm. See the chart below for more information on Data Matrix sizes and capacities.

Symbol Size <i>Row x Column</i>	Data Capacity		5 mil Examples	7.5 mil Examples	10 mil Examples	15 mil Examples
	Numeric	Alphanumeric				
10 x 10	6	3	 1.27 mm	 1.90 mm	 2.54 mm	 3.81 mm
12 x 12	10	6	 1.52 mm	 2.29 mm	 3.05 mm	 4.57 mm
14 x 14	16	10	 1.78 mm	 2.67 mm	 3.56 mm	 5.33 mm
16 x 16	24	16	 2.03 mm	 3.05 mm	 4.06 mm	 6.10 mm
18 x 18	36	25	 2.29 mm	 3.43 mm	 4.57 mm	 6.87 mm
20 x 20	44	31	 2.54 mm	 3.81 mm	 5.08 mm	 7.62 mm
22 x 22	60	43	 2.79 mm	 4.19 mm	 5.59 mm	 8.38 mm
24 x 24	72	52	 3.05 mm	 4.57 mm	 6.10 mm	 9.14 mm
26 x 26	88	64	 3.30 mm	 4.95 mm	 6.60 mm	 9.91 mm
32 x 32	124	91	 4.06 mm	 6.10 mm	 8.13 mm	 12.19 mm
36 x 36	172	127	 4.57 mm	 6.86 mm	 9.14 mm	 13.72 mm
40 x 40	228	169	 5.08 mm	 7.62 mm	 10.16 mm	 15.24 mm
44 x 44	288	214	 5.59 mm	 8.38 mm	 11.18 mm	 16.76 mm

NOTE: Each Data Matrix symbol shown is a square matrix. Symbols are for size reference only, and may not be accurately reproduced on-screen or by some print methods. Scale is 1:1.

2.5 mil Data Matrix

These extremely small Data Matrix symbols are nearly invisible to the naked eye. They must be printed or marked with a high level of accuracy to ensure readability. OMRON Microscan readers can decode Data Matrix symbols as small as 2.5 mil.



Symbol Size: 10 X 10
Data Capacity: Numeric: 6 / Alphanumeric: 3

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