

Omron Traceability

The traceability system is one that involves different types of devices, working together to identify a product throughout it's lifecycle, leading to improved quality and efficiency.



Traceability Product Selection Guide

Omron traceability products can increase efficiency, reduce costs and provide better control over product while protecting your company's business and brand



*Select a link for a product category

Barcode Readers



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Barcode Readers Types

- ✓ Fixed Mount Barcode Readers are:
 - Mounted in a stationary location
 - The barcode is presented to the viewing area
- ✓ Handheld Barcode Readers are:
 - Typically held by an operator
 - Positioned to the barcode's location by hand

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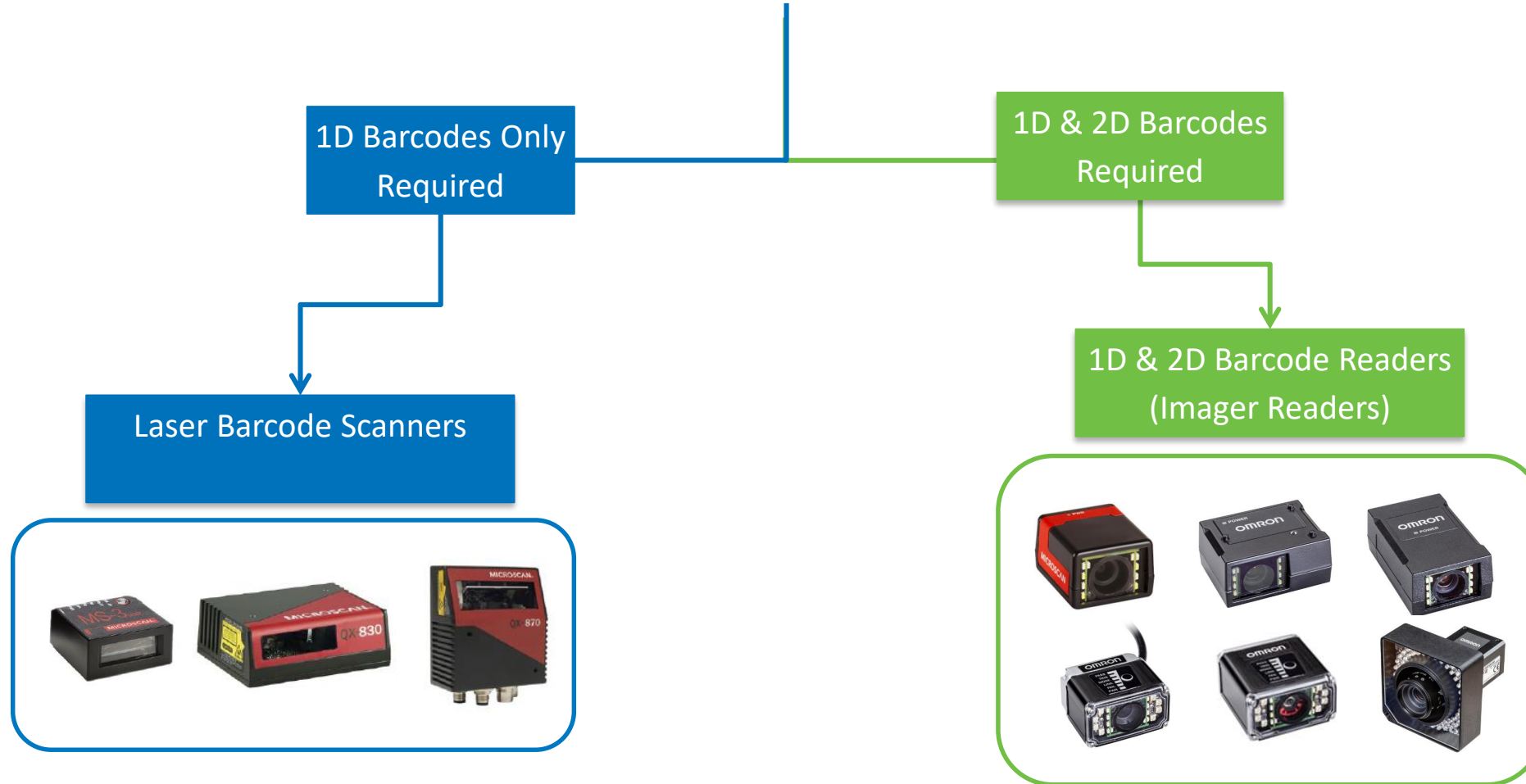
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Fixed Mount Barcode Readers

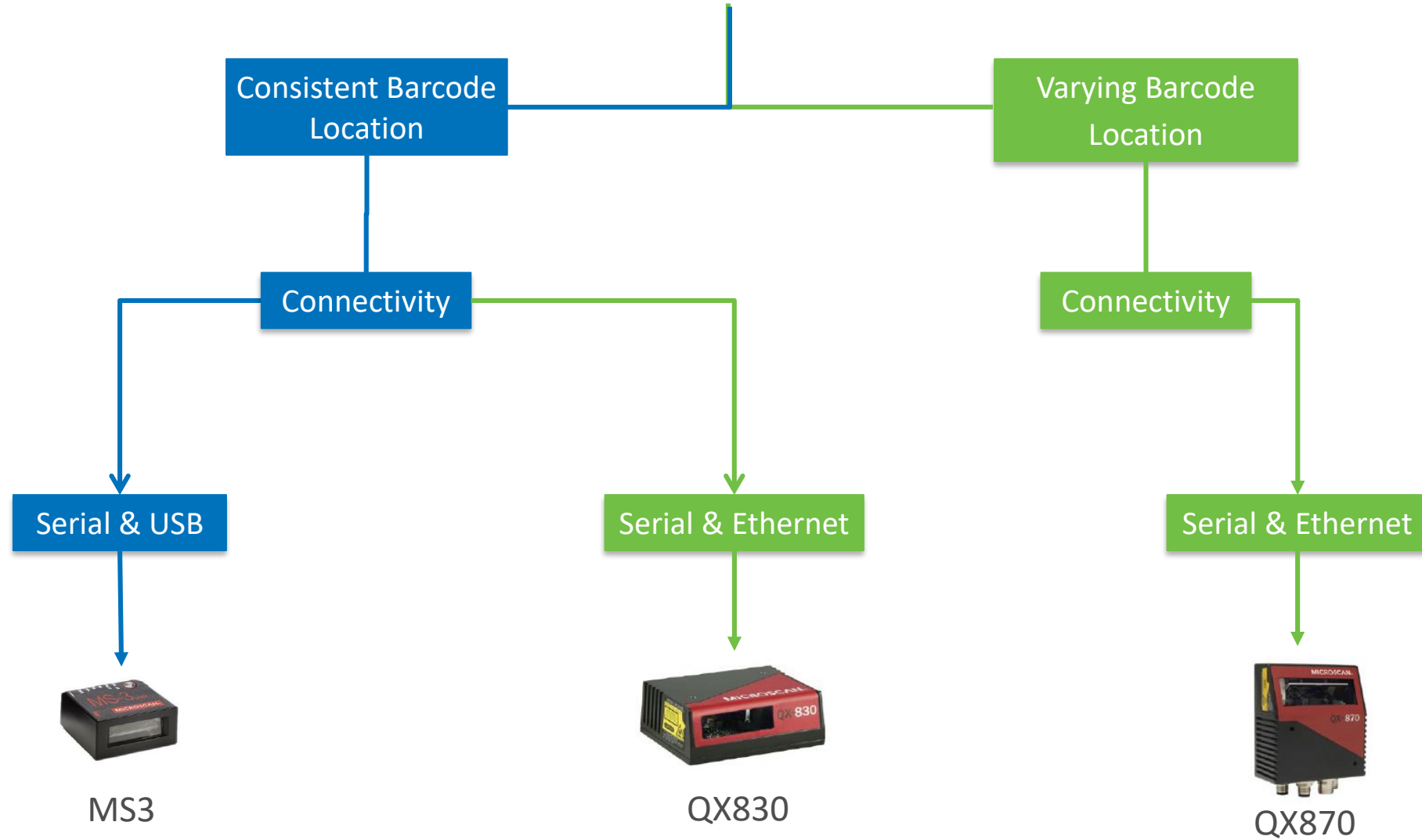


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Which Fixed Mount Barcode Reader Should I Choose?

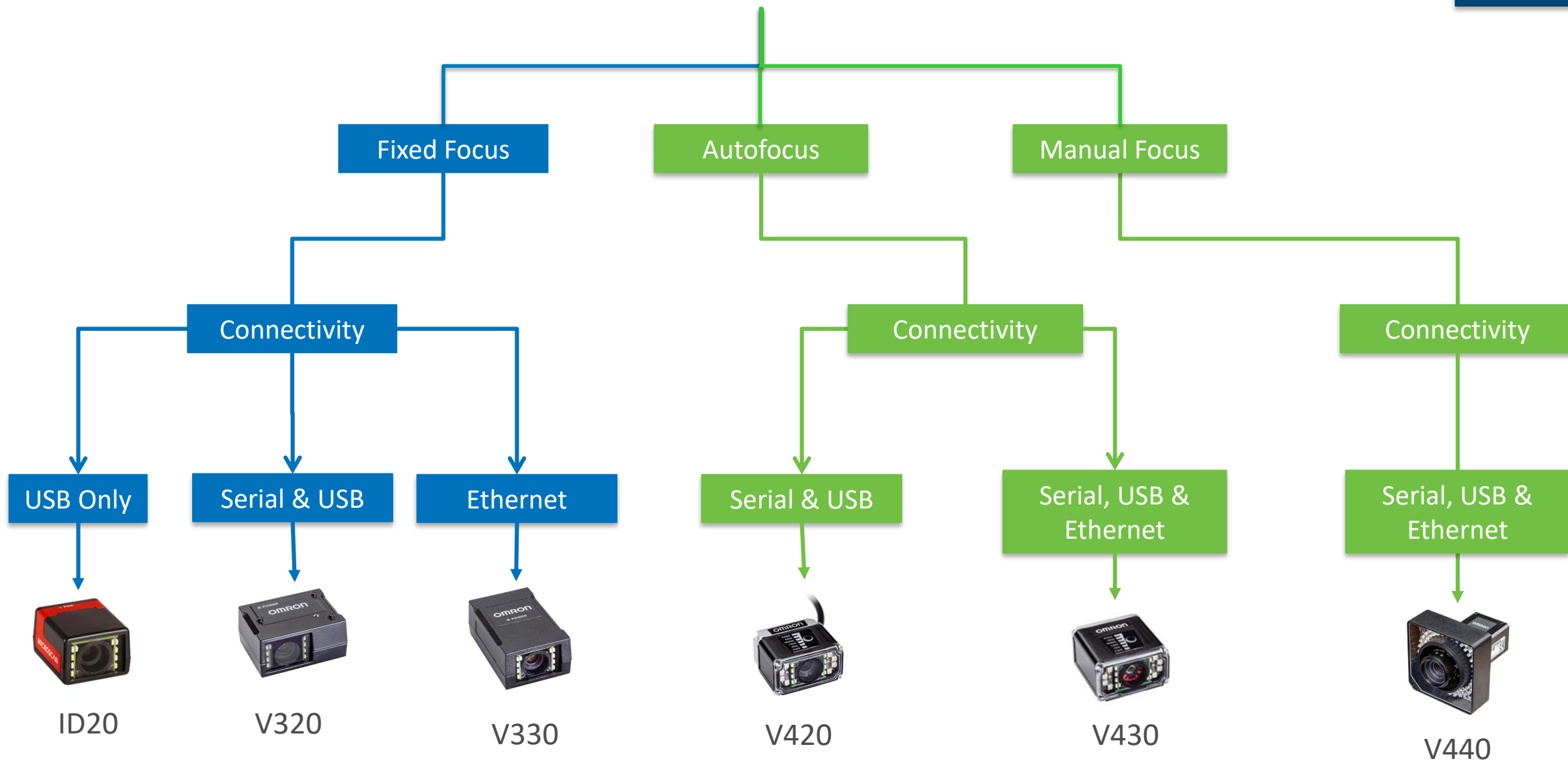


Laser Barcode Scanner Selection



*Click the picture to link to the individual product details

1D & 2D Barcode Readers



*Click the picture to link to the individual product details

Fixed Mount
Barcode Readers
MS3

[Web Page link](#)



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MS-3 Barcode Readers

- Compact 1D barcode laser scanner
- High speed (1000/sec)
- Scan range of 254mm (10")
- Single line or fixed 1.5° raster
- RS-232, RS-422/485, USB
- EZ Button Setup

- Part Numbers: FIS-0003-000_G

Fixed Mount Barcode Readers QX830

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QX-830

- 1D barcode laser scanner with X-Mode
 - High speed (1400/sec)
 - Scan range of 762mm (30")
 - Single line or fixed 2° raster
 - RS-232, RS-422/485 & Ethernet Connectivity
 - EZ Button Setup
-
- Part Numbers: FIS-0830-__ _ _G

Fixed Mount Barcode Readers QX870

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QX-870

- 1D barcode laser scanner with X-Mode
- High speed (1400/sec)
- Scan range of 762mm (30")
- Intelligent variable (1-36°) mirror raster
- RS-232, RS-422/485 & Ethernet Connectivity
- EZ Button Setup

- Part Numbers: FIS-0870-__ _ G

Fixed Mount Barcode Readers ID20

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ID 20

- Ultra-compact 1D & 2D fixed mount barcode reader with X-Mode
 - Multiple fixed focus lens options
 - Built-In white & red LED lighting
 - USB connectivity
 - Weblink browser based Setup
-
- Part Number: 721_-_-_-_-_-

Fixed Mount Barcode Readers V320

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V320

- 1D & 2D Fixed Mount Barcode Reader with X-Mode
 - Multiple fixed focus lens options
 - Built-In white & red LED lighting
 - RS-232 & USB 2.0 Connectivity
 - Weblink Browser Based Setup
-
- Part Number: V320 -F _ _ _ _ _ - NN_

Fixed Mount Barcode Readers V330

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V330

- 1D & 2D Fixed Mount Barcode Reader with X-Mode
 - Multiple fixed focus lens options
 - Built-In white & red LED lighting
 - Power Over Ethernet with standard RJ45 Connector
 - Ethernet TCP/IP, EtherNet/IP, PROFINET Connectivity
 - Weblink Browser Based Setup
-
- Part Number: V330 -F _ _ _ _ _ - NN _

Fixed Mount Barcode Readers V420

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V420

- 1D & 2D Fixed Mount Barcode Reader with X-Mode
- Autofocus & Fixed Focus Lens options
- Built-In white & red LED lighting
- Additional LED lighting Option
- RS-232 & USB 2.0 Connectivity
- Weblink Browser Based Setup
- Part Number: V420 -F _ _ _ _ _ - _ _ _

Fixed Mount Barcode Readers V430

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V430

- 1D & 2D Fixed Mount Barcode Reader with X-Mode
- Autofocus & Fixed Focus Lens options
- Built-In white & red LED lighting
- Additional LED lighting Options
- RS-232, USB & Ethernet Connectivity
- Ethernet TCP/IP, EtherNet/IP, PROFINET
- Weblink Browser Based Setup

- Part Number: V430 -F _ _ _ _ _ - _ _ _

Fixed Mount Barcode Readers V440

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V440

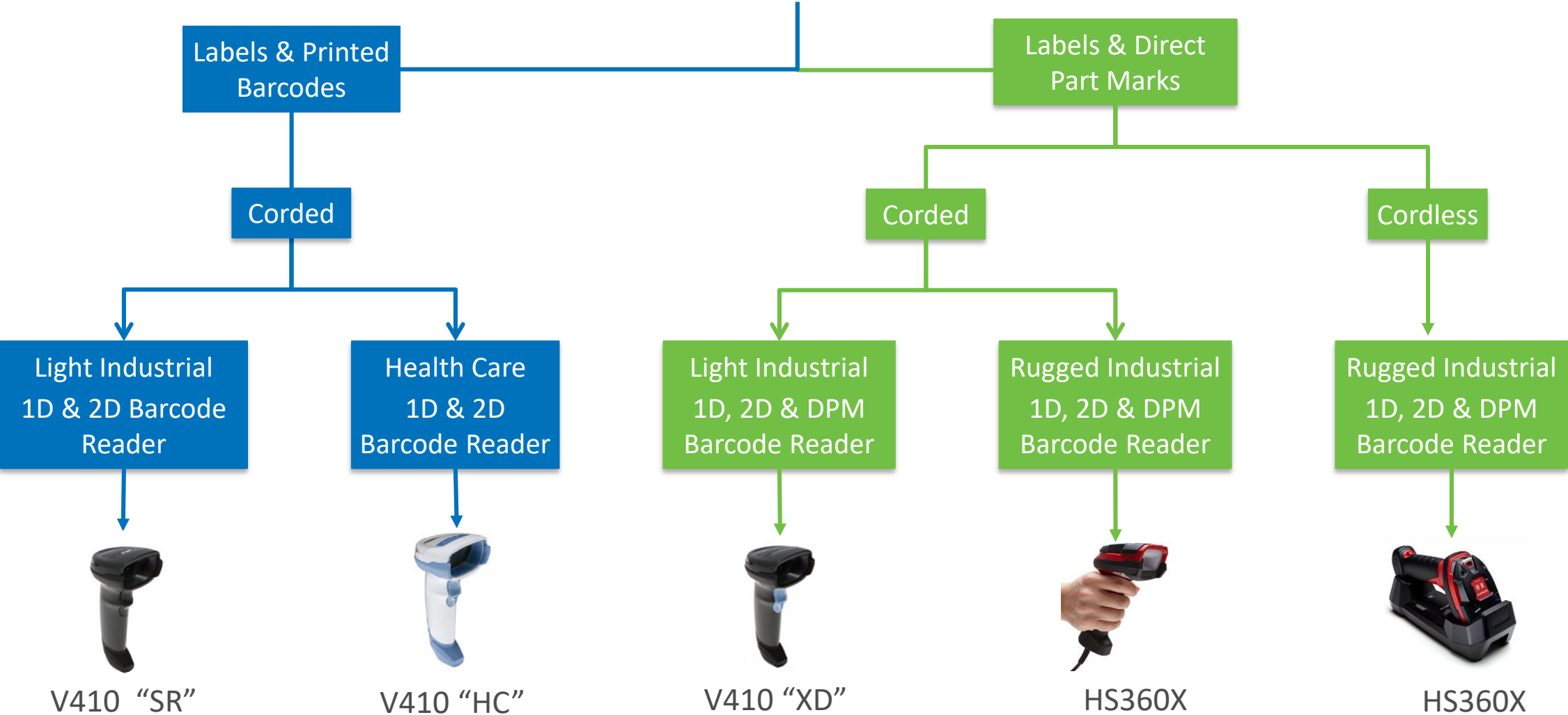
- 1D & 2D Fixed Mount Barcode Reader with X-Mode
 - C-Mount Lens Compatible
 - High performance processor
 - Optional NERlite ring lights
 - RS-232, USB & Gigabit Ethernet Connectivity
 - Ethernet TCP/IP, EtherNet/IP, PROFINET
-
- Part Number: V440-FXXXY50M-NN_

Handheld Barcode Readers



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Which Handheld Should I Choose?



*Click the picture to link to the individual product details

V410

Handheld Barcode Readers

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[EtherNet/IP Configuration Guide Link](#)

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V410 Handheld Barcode Readers

- Simple “point and shoot” barcode reader for 1D/2D barcodes and direct part marks (DPMs)
- Intended for use in light industrial, manufacturing, laboratory, and quality control
- USB and RS232C (corded connections available)
- EtherNet/IP and PROFINET connections available with the optional network adapter
- Simple setup with WebLinkPC software
- Optional presentation stand available

V410 “SR” Model

[Web Page link](#)



V410 “SR” - Super Range Model

- 1D & 2D corded barcode reader
- Extraordinary Range scanning out to 71cm (28")
- Largest “sweet spot” in the industry for simple point-and-shoot reading
- Eliminates the need to purchase separate readers for close and far range
- Reads virtually any 1D or 2D printed barcode on any medium or digital screen

- Part Number: V410-HDS4608SR

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V410 “HC” Model

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V410 “HC” - Health Care Model

- 1D & 2D corded barcode reader
- Read barcodes out to 45cm (18")
- Safe LED aimer is easy on the eyes
- Special disinfectant-ready plastic housing to help prevent the spread of germs
- “Do-not-disturb” modes for scanner with visual, haptic, and audible feedback
- Improves patient safety and increase caregiver productivity with next-generation scanning
- Part Number: V410-HDS4608HC

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V410 “XD” Model

[Web Page link](#)



V410 “XD” - X Mode, DPM Model

- 1D/2D & DPM barcode reader with X-Mode
- Reading from near contact to 21cm (8”) away
- Reading barcodes down to 2mils (element size)
- Capable of reading compact and high-density labels or direct part marks, all in the same barcode reader
- Part Number: V410-HDS4608XD

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HS360X

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[Configuration Guide Link](#)

[FAQs](#)



[EtherNet/IP Configuration Guide Link](#)

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HS360X - Ultra-Rugged Handheld Barcode Reader

- 1D/2D & DPM barcode reader with X-Mode
- Superior “ultra-rugged” performance
- Corded and cordless models
- USB and RS232C, connections available
- EtherNet/IP and PROFINET connections available with the optional network adapter
- Simple setup with WebLinkPC software
- Optional presentation stand available

HS360X

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[Configuration Guide Link](#)

[FAQs](#)



[EtherNet/IP Configuration Guide Link](#)

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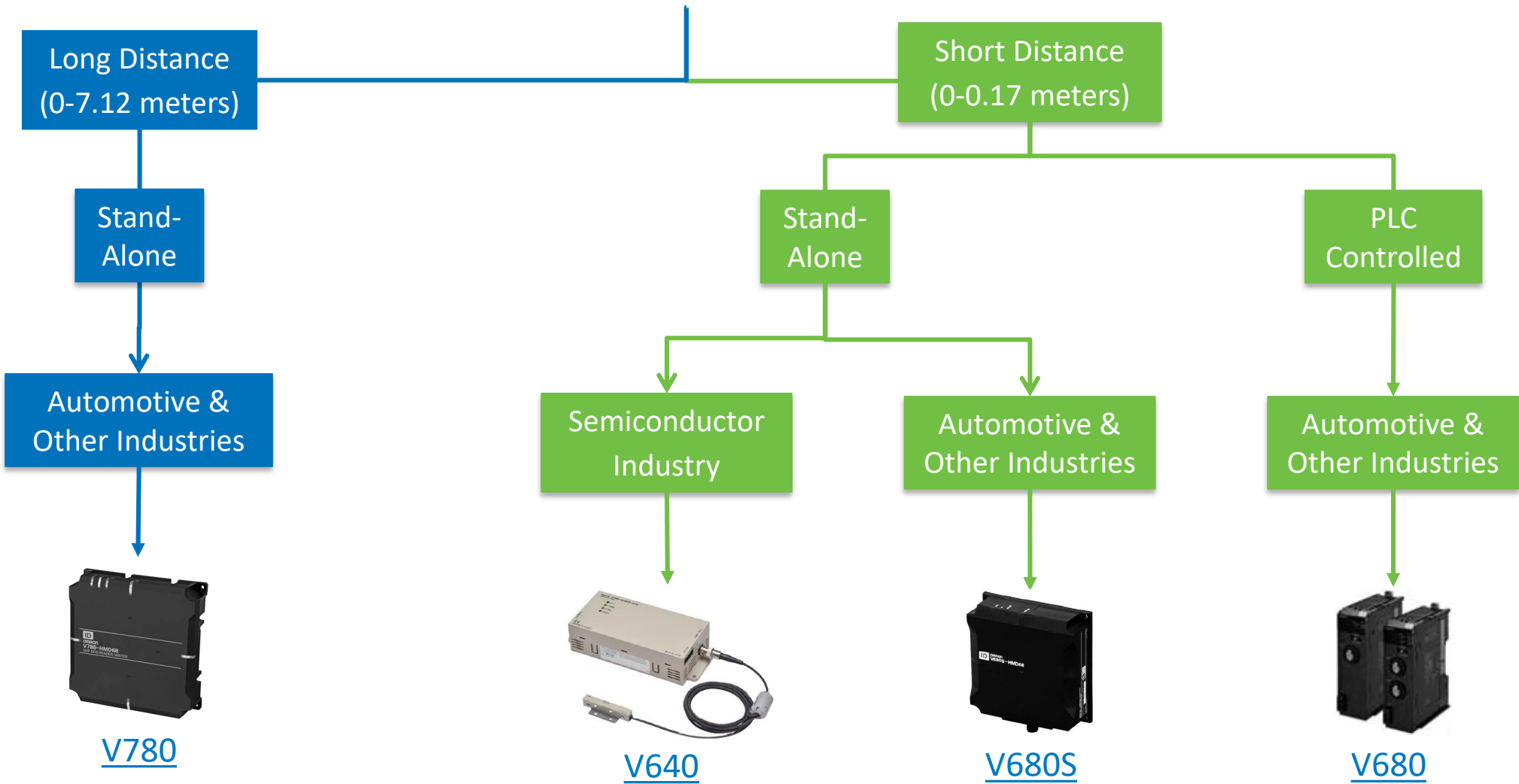
HS-360X Ultra-Rugged Handheld Barcode Reader

- HS-360X Corded Model - Part Number: HDS36080001
- HS-360X Cordless Model - Part Number: HDS36870001
- For configuration details and available options, see configuration guide [link here](#)

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Product Selection



Which RFID Product Should I Choose?



*Click the picture to link to the individual product details

V780

UHF RFID Reader/Writer

[Web Page link](#)



[EtherNet/IP User's Manual Link](#)

[Click on pictures to link to datasheet](#)

V780 Ultra High Frequency RFID Reader/Writer

- Conforms to ISO/IEC 18000-63: 2013 operating at 865 to 927 MHz depending on local Country regulations
 - North America “US” model operates at 915 MHz per ISO 18000-6C, EPC Class1Gen2, FCC 15.247 (United States), ISED RSS-247 (Canada)
 - Mexico “MX” model operates between 902.75 and 927.25 MHz per IFT-008, NYCE NOM-208
- Ethernet (EtherNet/IP™, Modbus TCP/IP) as a standard feature
- Reader/writer with integrated antenna
- Long range and stable communications
- Communications status visualized by LED indicators
- Simple and easy to use

V640 RFID System

[Web Page link](#)



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V640 Low Frequency RFID System

- Conforms to ISO/IEC 18000-2 RFID wireless interface standards operating at 134 kHz (SEMI E99)
- Supports SEMI standard (E4, E5, E99, E15.1, E144-0312)
- Certified as radio by many countries: the USA's FCC, EU's R&TTE directive, Canada's IC, China, South Korea, Taiwan, Singapore, and Israel
- Supports SECS commands (when using V700-L22-V2)
- Embedded Web browser function provides easy configuration and read/write testing (Ethernet type only)
- Enhanced functions, TEST Mode / Detecting for CIDRW Head status

V680S HF RFID Reader/Writer

[Web Page link](#)



[EtherNet/IP User's Manual Link](#)

[Click on pictures to link to datasheet](#)

V680S High Frequency RFID Reader/Writer

- Conforms to ISO/IEC 18000-3 (15693) operating at 13.56 MHz
- Ethernet (EtherNet/IP™, PROFINET, Modbus TCP/IP) as a standard feature
- Reader/writer with integrated antenna
- Wide line-up of ultra-compact, long-life RF Tags, with capacities from 1 to 8 kbytes
- WEB browser can be used for setting, monitoring, and communications with RF Tags
- Easy installation and “visualized” communications status minimize startup work and downtime

V680 HF RFID System

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RFID Products](#)

V680 High Frequency RFID System

- Conforms to ISO 15693 operating at 13.56 MHz
- FCC, ARIB and CE approved system
- Complies with FCC Rules and R&TTE Directive
- Antennas and RF Tags with excellent environmental resistance
- Wide line-up of ultra-compact, long-life RF Tags, with capacities from 1 to 8 kbytes
- High-speed communications and highly reliable communications provided with an electromagnetic induction system and unique technology
- Visualizes the communications status for simple analysis of the operating environment

Barcode Verifiers



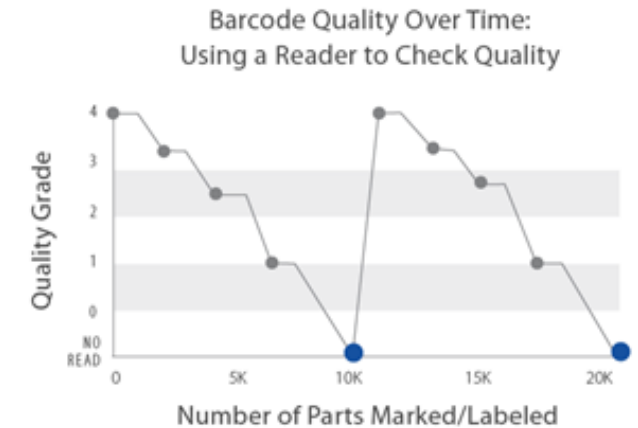
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Verification

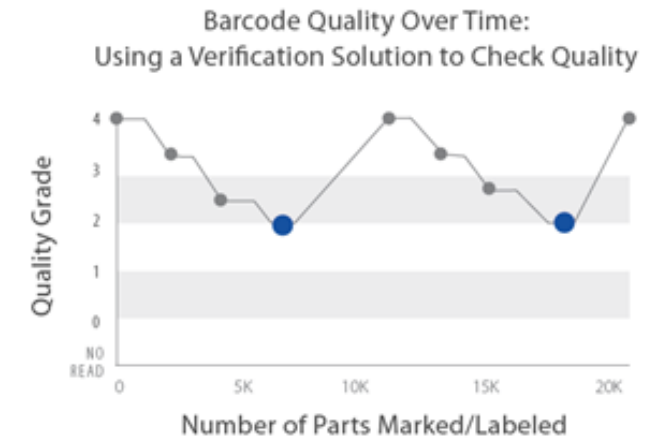
- Verification is a precise and objective standardized measurement of the quality of a barcode symbol against a published specification.
- Verification is a predictor of how well a code will be able to be read throughout its life cycle.
- The verifier is the calibrated instrument used to objectively measure barcode quality.

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WITHOUT VERIFICATION



WITH VERIFICATION



Barcode Verifier Types

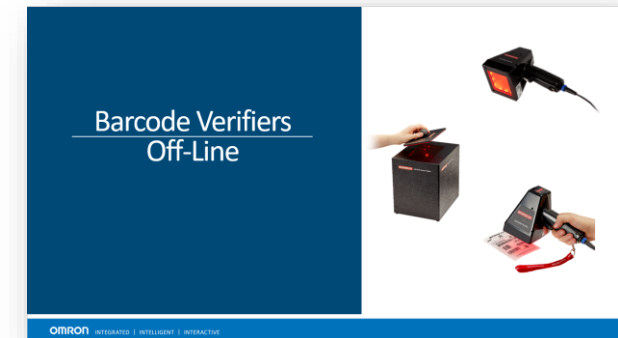
✓ Off-Line Verifiers:

- Measure the quality of a single barcode at a time
- Are typically offline in a quality control environment

✓ In-Line Verifiers:

- Measure the quality of a label as it is produced
- Are directly connected to the production printer

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Barcode Verifiers Off-Line

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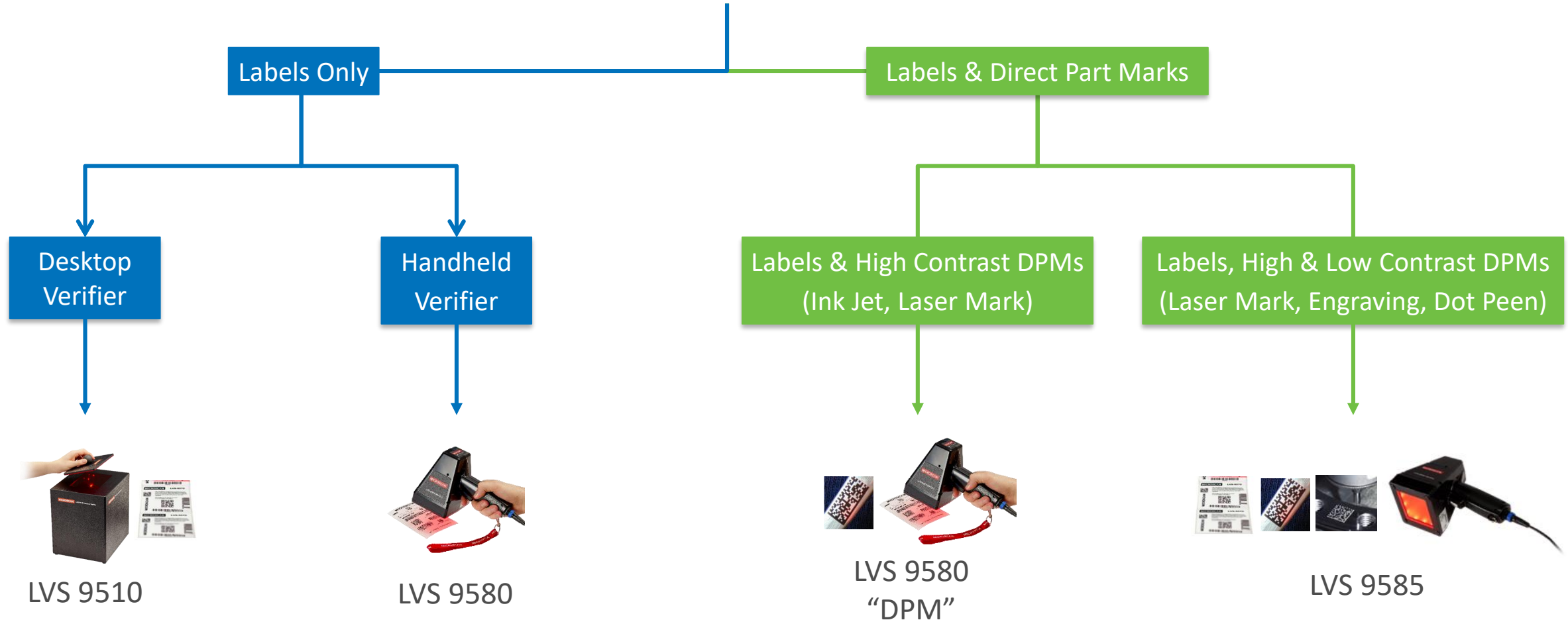


Off-line Verifiers

- Off-line verifiers can be used to measure the quality of a single barcode at a time, usually on a label or DPM.
- DPM stands for direct part marking, which is when the barcode is marked onto the part or into the part.
- Some DPM barcodes use depth for the marking (for example, dot peen, percussion, and some laser marks).
- These low-contrast DPMs require 30-degree-angle lighting (specifically available on the LVS-9585).



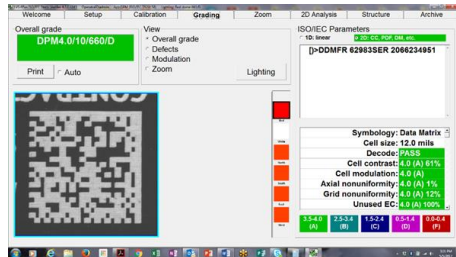
Which verifier should I choose?



*Click the picture to link to the individual product

LVS-9510 Desktop Verifier

[Web Page link](#)



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Off-Line Verifiers](#)

LVS 9510 Desktop Barcode Verifier

- Calibrated verifier
- Intended for “Off-Line” label verification
- Labels can be set directly on top of the glass
- Provides a verification report for each barcode
- Includes red (filtered) lighting
- USB connection to PC (separate power supply)
- Includes Omron LVS PC verification software

LVS-9510 Desktop Verifier

[Web Page link](#)



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LVS 9510 Desktop Barcode Verifier

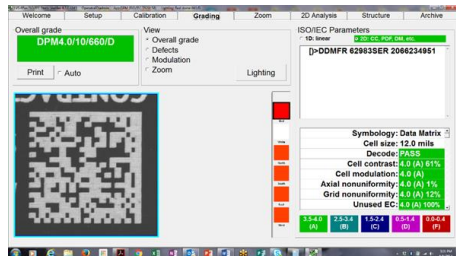
- Select a part number based on the label and the size of the barcode needing to be verified

Field of View size Available by Part number:

<u>Part Number</u>	<u>Field of View</u>	<u>Type</u>
9510-5-175	44mm x 33mm	1D & 2D Labels
9510-5-3	76mm x 57mm	1D & 2D Labels
9510-5-4	98mm x 74mm	1D & 2D Labels
9510-5-45	113mm 85mm	1D & 2D Labels
9510-5-6250	155mm x 102mm	1D & 2D Labels

LVS-9580 Handheld Verifier

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LVS 9580 Handheld Barcode Verifier

- True calibrated verifier
- Intended for “Off-Line” label and DPM verification
- Verifier can be set directly on top of barcode or mark regardless of label size
- Provides a verification report for each barcode verified
- Includes red (filtered) lighting
- USB connection to PC with Omron LVS verification software
- Software includes many different verification standards

LVS-9580
Handheld Verifier

[Web Page link](#)

LVS 9580 Handheld Barcode Verifier

- Select a part number based on the label size, barcode size, and barcode or marking type required (Label or DPM)

Field of View size Available by Part number:

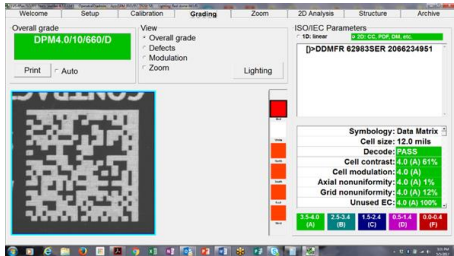
<u>Part Number</u>	<u>Field of View</u>	<u>Type</u>
9580-1D-3	76mm x 57mm	1D Barcode Labels
9580-2D-3	76mm x 57mm	2D Barcode Labels
9580-C-3	76mm x 57mm	1D & 2D Barcode Labels
9580-DPM	45mm x 45mm	1D/2D Barcode Labels & DPM
9580-DPM-HD	20mm x 20mm	1D/2D Barcode Labels & DPM



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LVS-9585 Handheld Verifier

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LVS 9585 Handheld Barcode Verifier

- True calibrated verifier
- Intended for all “Off-Line” labels and DPM barcode verification
- Verifier can be set directly on top of barcode
- Provides a verification report for each barcode verified
- Includes red and white dome lighting plus 30-degree-angled lighting specifically required for some DPM barcodes
- USB connection to PC with Omron LVS verification software
- Software includes many different verification standards

LVS-9585 Handheld Verifier

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LVS 9585 Handheld Barcode Verifier

- Select a part number based on the label size, barcode size, and barcode or marking type required

Field of view available by part number:

<u>Part Number</u>	<u>FOV</u>	<u>Type</u>
9585-DPM	45mm x 45mm	1D/2D Labels & DPM
9585-DPM-HD	20mm x 20mm	1D/2D Labels & DPM

Barcode Verifiers In-Line

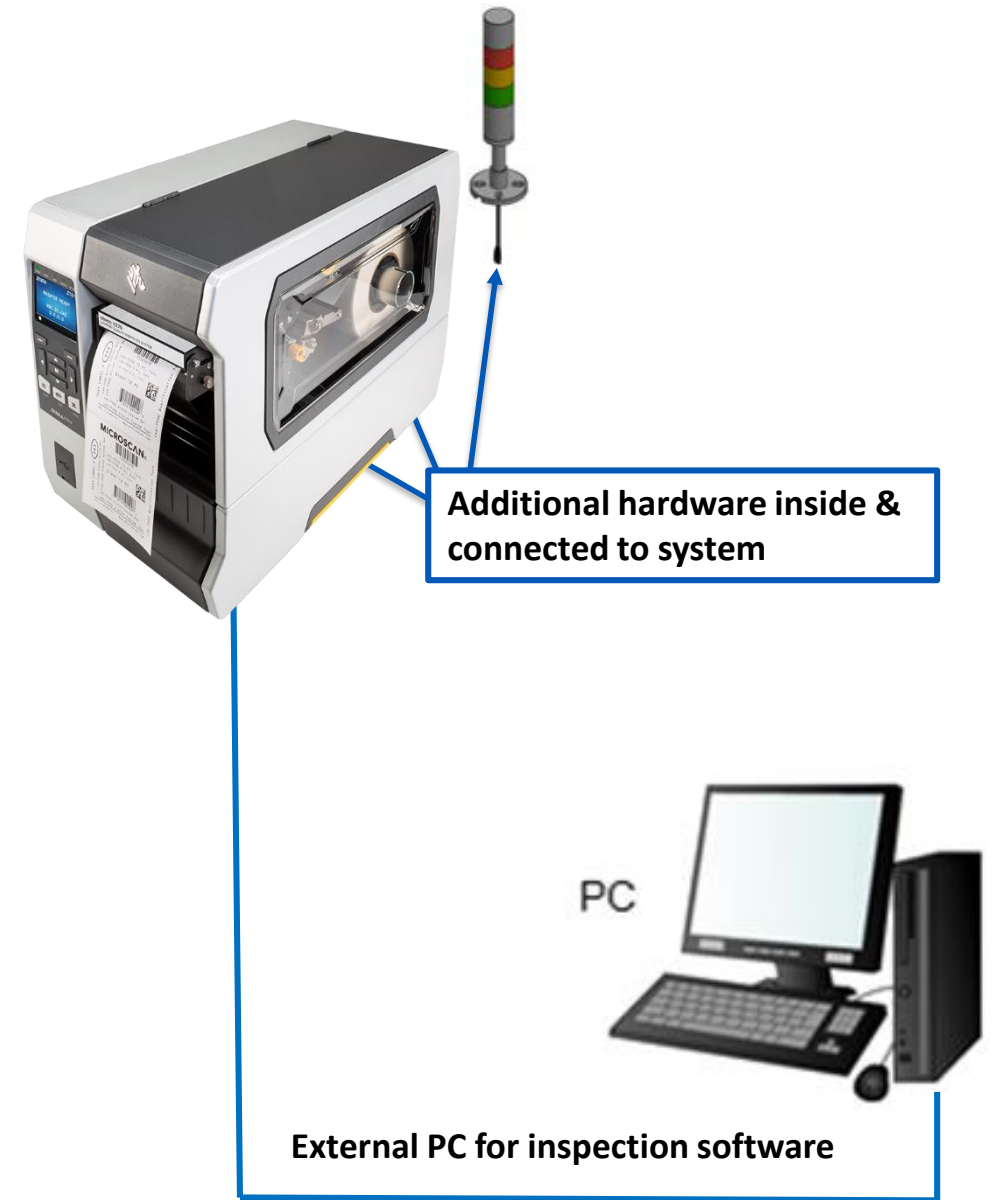
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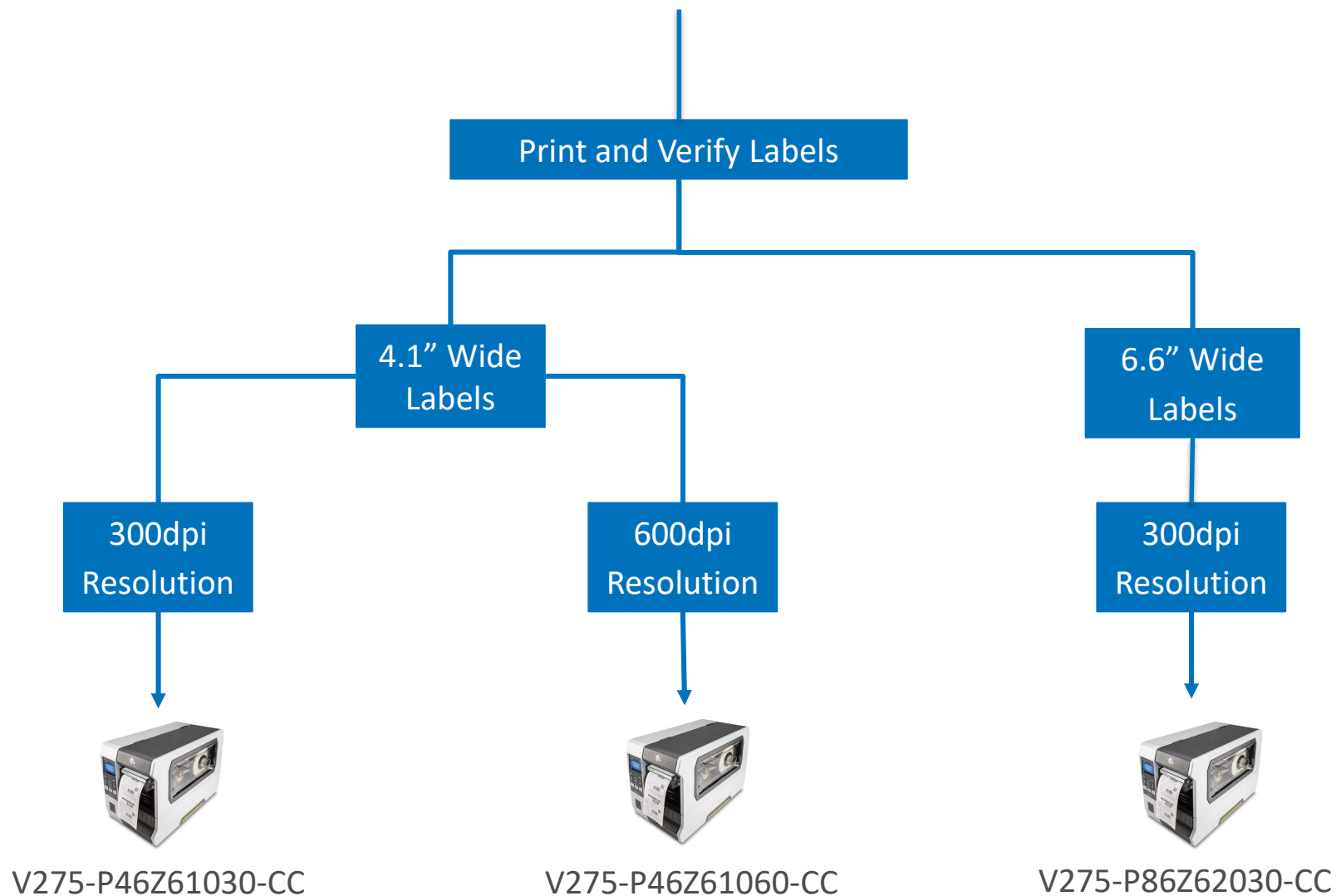
V275 In-Line Print Quality System

- ✓ 100% inspection of printed labels
- ✓ Barcode verification to ISO standards
- ✓ Verifies printed characters
- ✓ GS1 application identifier check
- ✓ Blemish inspection
- ✓ Matches human readable vs. barcode data
- ✓ Secure reporting layer

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Which verifier should I choose?



Click the picture to link to the individual product

V275 In-Line Verifier

[Web Page link](#)



V275-P46Z61030-CC

V275 In-Line Verifier and Print Quality System

- Print Quality Inspection Engine integrated into Printer
- 300dpi resolution Printer
- Print and Verify labels up to 4.1" Wide
- Print and Verify at 12" per Second
- Separate PC required for inspection software
- Part Number: V275-P46Z61030-CC

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V275 In-Line Verifier

[Web Page link](#)



V275-P46Z61060-CC

V275 In-Line Verifier and Print Quality System

- Print Quality Inspection Engine integrated into Printer
- 600dpi resolution Printer
- Print and Verify labels up to 4.1" Wide
- Print and Verify at 6" per Second
- Separate PC required for inspection software
- Part Number: V275-P46Z61060-CC

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V275 In-Line Verifier

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V275-P86Z62030-CC

V275 In-Line Verifier and Print Quality Label System

- Print Quality Inspection Engine integrated into Printer
- 300dpi resolution printer
- Print and Verify labels up to 6.6" Wide
- Print and Verify at 8" per Second
- Separate PC required for inspection software
- Part Number: V275-P86Z62030-CC

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