PowerScan[™] PD9600

QUICK REFERENCE GUIDE



Industrial Corded Handheld Area Imager Bar Code Reader

COLOUATACO

Datalogic S.r.l.

Via S. Vitalino, 13 40012 Calderara di Reno (BO) Italia Telefono: +39 051 3147011 Fax: +39 051 3147205

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The number of arbitrators will be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties will appoint a third arbitrator who will act as chairman of the proceedings. Vacancies in the post of chairman will be filled by the president of the SIAC. Other vacancies will be filled by the respective nominating party. Proceedings will continue from the stage they were at when the vacancy occurred. If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator will be the sole arbitrator, provided that the arbitrator was validly and properly appointed. All proceedings will be conducted, including all documents presented in such proceedings, in the English language. The English language version of these terms and conditions prevails over any other language version.

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To arrange for a Software Maintenance and Support Agreement please contact your Datalogic sales person.







POWERSCAN™ PD9600

ABOUT THE SCANNER

The PowerScan[™] PD9600 is a feature-rich and rugged area imager reader. It is offered in several different models to better fit the different needs of each customer. The table below shows the unique features of each model:

| MODEL | TYPE | OPTICAL FEATURE | |
|--------|------|--|--|
| PD9630 | SR | Standard Range, standard and low density codes | |
| PD9630 | HP | High Performance, high, standard and low density codes | |
| PD9630 | DC | Document Capture, wide angle, standard and low density code, color sensor for image capture | |
| PD9630 | AR | Auto range area reader, auto range optics | |
| PD9630 | DPX | Direct Part Marking (DPM) reader with auto range optics and multi-color illumination system | |

General Features

| Omni-directional Operating | To read a symbol or capture an image, you simply aim the reader and pull the trigger. Since the PowerScan™ PD9600 is a powerful omni-directional reader, the orientation of the symbol is not important. | |
|---------------------------------|---|--|
| Decoding | Thanks to powerful algorithms, PowerScan™ PD9600 reliably decodes all major 1D (linear) barcodes, 2D stacked codes (such as PDF417), 2D matrix symbols (such as DataMatrix), postal codes (such as POSTNET, PLANET) and DPM barcodes on different material supports (e.g. metal, plastic, glass, printed circuits, components case, etc.). The data stream — acquired from decoding a symbol — is rapidly sent to the host. The reader is immediately available to read another symbol | |
| Formatting and Concatenating | The string of a decoded code may be processed according to either a simple or advanced data formatting and be concatenated. | |
| Imaging | PowerScan™ PD9600 can also function as a camera by capturing images. Color images are possible with -DC model. | |
| Autoscanning | An autoscan command causes the reader to scan continuously and to monitor the central zone of its reading area. Not available for PD9630-AR model. | |

| Flash Memory | Flash technology allows you to upgrade the PowerScan™ PD9600 reader as new symbologies are supported or as improved decoding algorithms become available. |
|-------------------------------|---|
| USA Driver License Parsing | The reader can be set up to select and output a subset of data elements from USA Driver License PDF417 barcodes. This feature can be enabled using either Datalogic Aladdin TM or the barcodes in the USA Driver License Parsing Quick Reference Guide (QRG), available on the Datalogic website. |

SETTING UP THE READER

Follow the steps below to connect and get your reader up and communicating with its host.

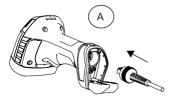
- 1. Connect the Cable to the reader and the Host as shown below.
- 2. Configure the Interface (see page 10).
- Configure the Reader starting on page 18 (optional, as needed).

Connect the PowerScan[™] by plugging directly into the host device as shown. The power can also be supplied through an external power supply via the Interface Cable supplied with a power jack.

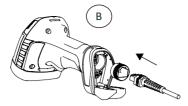
Connecting the Cable



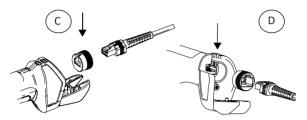
1. Use a screwdriver to open the handle.







2. Insert the circular RJ45 cable (figure A) or use the adapter with non-circular RJ45 cables (figure B).



 In this case, make sure to insert the adapter with the slot facing up (C). The rib (D) inside the adapter seat must fit into this slot.



Once the cable is properly inserted, close the handle and screw it back into the body.

Connecting to the Host Interface

Follow the steps indicated by the pictures below to connect the gun to the Host, according to the communication cable available.



RS-232



ETHERNET CM9680



ODATALOGIC





CAUTION: To avoid damage to the scanner and/or to the host, first install correctly the cable into the scanner and then connect the other end of the cable into the host port of the PC.



NOTE: When using the CM9680/CM9681 modules, apply the ferrite provided with the device to the Ethernet cable 5 cm from the box. See the example below.

Figure 1 - How to mount a ferrite





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CM9681 Power Over Ethernet (PoE) Connection

| PIN | NAME | DESCRIPTION | |
|-----|------|-----------------|------------|
| 1 | TX+ | Transmit Data + | |
| 2 | TX- | Transmit Data - | |
| 3 | RX+ | Receive Data + | 7 8 \ / |
| 4 | RX- | Receive Data - | 6 1 |
| 5 | DC1- | DC Power - | 5 2 |
| 6 | DC2- | DC Power - | 4 3 |
| 7 | DC1+ | DC Power + | |
| 8 | DC2+ | DC Power + | |

M12 X-Coded Female Ethernet Network Connector

Power can be applied to any of the data pairs according to the IEE 802.3af standard for Alternative A (Mid and Endspan) or Alternative B.

CM9681 External Power Connection

| DESCRIPTION | |
|--------------------------|--|
| 1 - BROWN 10-30V | |
| 2 - NOT USED (WITH HOLE) | ³ O |
| 3 - BLUE GND | $\begin{pmatrix} c \circ \circ \circ \circ \circ \\ \circ \circ \circ \circ & \circ \end{pmatrix}$ |
| 4 - BLACK | |
| 5 - NOT USED (WITH HOLE) | |

CM9680/CM9681 Compatible Cables

| CABLE | PART NUMBER |
|---|----------------|
| PWR-IN CONNECTOR M12 5P F. A-Coded | 93A050045 |
| CABLE RS232 2M POT COIL IP67 | CAB-559 |
| 3-POLE STRAIGHT CABLE 3M | 95A251290 |
| 3-POLE STRAIGHT CABLE 5M | 95A251300 |
| 3-POLE STRAIGHT CABLE 10M | 95A251340 |
| CAB-ETH-X-RJ ADAPTER FULL GETH-X to RJ45 | 93A050141 |
| CAB-ETH-X-M01 M12-IP67 GETH-X CAB 1M | 93A050122 |
| CAB-ETH-X-M03 M12-IP67 GETH-X CAB 3M | 93A050123 |



CAUTION: Use only the recommended RS232 cables. If you use a cable that is not recommended, do not connect the power supply to the cable.



CAUTION: Use only the recommended Ethernet cables or in alternative only high quality shielded cables.

USING THE POWERSCAN™ PD9600

The PowerScan[™] PD9600 normally functions by capturing and decoding 1D and 2Ds codes. The reader is equipped with an internal Motionix[™] motion-sensing function which activates the aiming system on device motion. The intelligent aiming system indicates the field of view which should be positioned over the bar code.

Table 1 - Aiming System

| OPTICS TYPE | AIMER PATTERN |
|-------------------------|---------------|
| SR Optics HP Optics | |
| DC Optics | |
| AR Optics DPX Optics | • |

The field of view indicated by the aiming system will be smaller when the reader is closer to the bar code and larger when it is farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit. Symbologies with larger bars or elements (mil size) should be read farther from the unit.

NOTE: Placing the aiming pointer over the barcode is strongly recommended to maximize the reading capability of DPM barcodes.

Successful reading is signaled by an audible tone plus a good-read green spot LED indicator (not present in AR model) and vibration.

With AR model, if enabled, a partial trigger press produces a red spot, which should be aimed over the code center to get the best reading performance. By completely pressing the trigger the illumination area appears and the code scanning starts.

Reference the PowerScan[™] 9600 Family Product Reference Guide (PRG) for more information about this feature and other programmable settings.

Aiming Pointer

Scan the following symbols to enable or disable the aiming pointer.





NOTE: Disabling the aiming pointer in PD9630-AR and PD9630-DPX models is strongly discouraged as it ensures best decoding performances.

SELECTING THE INTERFACE TYPE

Upon completing the physical connection between the reader and its host, proceed directly to the Interface Selection paragraph below, to program the reader for the interface type it is connected to (for example: RS-232, USB, Ethernet etc.). Scan the appropriate bar code to select your system's correct interface type.

Interface Selection

All models are multi-interface and support RS-232, USB and Ethernet. Information and programming options for each interface type are provided in this section. For defaults and additional information associated with each interface, proceed to the corresponding chapter in the PowerScan[™] 9600 Family PRG.

CONFIGURING THE INTERFACE

Scan the appropriate programming bar code to select the interface type for your system.



NOTE: Unlike some other programming features and options, interface selections require that you scan only one programming label. DO NOT scan an ENTER/EXIT label prior to scanning an interface selection label.

Some interfaces require the scanner to start in the disabled state when powered up. If you read one of these interface selections by mistake, or if additional scanner configuration is desired while in this state, pull the trigger and hold for 5 seconds. The scanner will change to a state that allows reading programming labels.

This procedure is allowed only once after the reader is powered up. If it is necessary to repeat the procedure, you must cycle power to the reader before repeating.

DATALOGIC

SERIAL INTERFACE

RS-232 standard interface



RS-232 Wincor-Nixdorf



RS-232 for use with OPOS/UPOS/JavaPOS



USB Com to simulate RS-232 standard interface



Select USB-COM-STD^a

USB-0EM

USB -OEM (can be used for OPOS/UPOS/JavaPOS)



a. Download the correct USB Com driver from www.datalogic.com

★ Factory setting

USB FOR TERMINALS

USB HID POS



USB Toshiba TEC



Select USB Toshiba TEC

USB FOR MAGELLAN SCANNERS

USB for Magellans



Select USB Magellan Scanners

ETHERNET



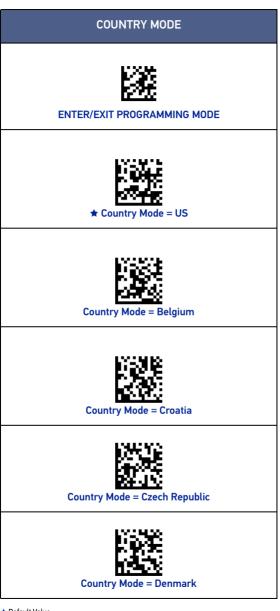
ODATALOGIC

Keyboard Interface

Use the programming labels to select options for USB Keyboard Interfaces.



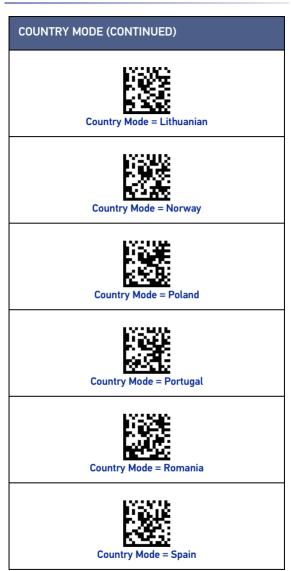
★ Factory setting



🖈 Default Value

ODATALOGIC

COUNTRY MODE (CONTINUED) Country Mode = France Country Mode = French Canadian Country Mode = Germany Country Mode = Hungary Country Mode = Italy Country Mode = Japanese 106-Key



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COUNTRY MODE (CONTINUED)







Country Mode = Switzerland





PROGRAMMING

The reader is factory-configured with a set of standard default features. After scanning the interface bar code from the Interfaces section, select other options and customize your reader through use of the programming bar codes available in the PowerScan[™] PD9600 PRG. Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of the PRG.

Using Programming Bar Codes

This manual contains bar codes which allow you to reconfigure your reader. Some programming bar code labels, like the bar code "Reset Default Settings" below, require only the scan of that single label to enact the change.

Other bar codes require the reader to be placed in Programming Mode prior to scanning them. Scan an ENTER/ EXIT bar code once to enter Programming Mode; scan the desired parameter settings; scan the ENTER/EXIT bar code again to accept your changes, which exits Programming Mode and returns the reader to normal operation.

Configure Other Settings

Additional programming bar codes are available in the PRG to allow for customizing programming features. If your installation requires different programming than the standard factory default settings, refer to the PRG.

Resetting Product Defaults

If you aren't sure what programming options are in your reader, or you've changed some options and want your custom factory settings restored, scan the bar code below to reset the reader to its initial configuration. Reference the PRG for other options, and a listing of standard factory settings.



NOTE: Factory defaults are based on the interface type. Be sure your reader is configured for the correct interface before scanning this label. See "Selecting the Interface Type" on page 10 for more information.



READING PARAMETERS

Move the reader toward the target and center the aiming pattern and illumination system to capture and decode the image. See "Using the PowerScan™ PD9600" on page 8 for more information.

The aiming system will briefly switch off after the acquisition time, and if no code is decoded will switch on again before the next acquisition. The illuminator will remain on until the symbol is decoded. In AR model the aiming system remains on until the trigger is released.

As you read code symbols, adjust the distance at which you are holding the reader.

OPERATING MODES

Scan Mode

The reader can be set to operate in one of several scanning modes. See the PRG for more information and settings for any of the options:

Trigger Single (Default) — This mode is associated with typical handheld reader operation. Motion Sense¹ is active. When the trigger is pulled, illumination is turned on and the scanner attempts to read a label. Scanning is activated until one of the following occurs:

- the programmable "Scanning Active Time"² has elapsed
- a label has been read
- the trigger is released

Trigger Pulse Multiple — Scanning begins when the trigger is pulled and continues after the trigger is released, until the trigger is pulled again or until the programmable "Scanning Active Time"² has elapsed. Motion Sense¹ is active. Reading a label does not disable scanning. Double Read Timeout² prevents undesired multiple reads while in this mode.

Trigger Hold Multiple — When the trigger is pulled, scanning starts and the product scans until the trigger is released or "Scanning Active Time"² has elapsed. Motion Sense¹ is active. Reading a label does not disable scanning. Double Read Timeout² prevents undesired multiple reads while in this mode.

Always On — The illuminator is always ON and the reader is always ready for code reading. Double Read Timeout²

 See the Product Reference Guide (PRG) for these and other programmable features.

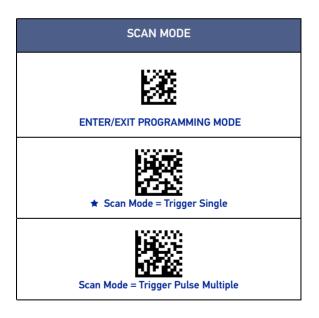
If the scanner detects motion the aiming pattern is turned on. In the AR model the aiming system turns on with a partial pull of the trigger.

prevents undesired multiple reads. Not available for AR model.

Flashing — The reader illuminator flashes on and off regardless of the trigger status. Code reading takes place only during the Flash On¹ time. Double Read Timeout² prevents undesired multiple reads.

Stand Mode — The scanner looks for changes within its field-of-view. The Aiming Pattern is always on to show the optimum reading area. If a predefined amount of movement is detected, the white illumination switches on. Scanning continues until a label is read or "Scanning Active Time" is reached. Not available for AR model.

Retained Trigger Hold Multiple — Same as Trigger Hold Multiple but all decoded labels are transmitted when the trigger is released. Motion Sense³ is active. The labels can be sorted before transmission.



- Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.
- See the Product Reference Guide (PRG) for these and other programmable features.
- If the scanner detects motion the aiming pattern is turned on. In the AR model the aiming system turns on with a partial pull of the trigger.





Scan Mode = Trigger Hold Multiple





Scan Mode = Always On^a



Scan Mode = Stand Mode^a



Scan Mode= Retained Trigger Hold Multiple

a. Not available for AR model.



POWER OPTIMIZATION



ENTER/EXIT PROGRAMMING MODE



★ Power Optimization = Performance



Power Optimization = Consumption

★ Factory setting



TECHNICAL SPECIFICATIONS

PowerScan[™] PD9600

| PHYSICAL CHARACTERISTICS | | |
|--------------------------|---|--|
| Color | Yellow/Black | |
| | Height 19.0 cm (7.5'') | |
| Dimensions | Length 14.0 cm (5.5") | |
| | Width 7.9 cm (3.1") | |
| Weight | SR/HP/DC: Approx. 305 g (10.7 oz.) | |
| (without cable) | AR: 320 g (11.28 oz.) | |
| (without cable) | DPX: 316 g (11.1 oz.) | |
| ELECTRICAL CH | ARACTERISTICS | |
| Input Voltage | 5 - 30 VDC ± 5% | |
| | Operating (Typical) ^a : | |
| | SR: 200mA @ 5V; 120mA @ 12V | |
| | HP/DC: 280mA @ 5V / 140mA @ 12V | |
| | AR: 410mA @5V /180 mA @12V | |
| | DPX: 470mA @ 5V; 190 mA @ 12V | |
| | Operating (max ^b): | |
| Current | SR/HP/DC: 500mA @5V / 200mA @12V | |
| Consumption | AR:850mA @5V (550mA with Power Optimi- | |
| | zation enabled); 350mA @12V | |
| | DPX: 1A @5V; 400 mA @12V | |
| | Standby/Idle (Typical): | |
| | SR/HP/DC: 187mA @ 5V / 92mA @ 12V | |
| | AR: 140mA @ 5V / 80mA @ 12V | |
| | DPX: 89mA @ 5V / 41mA @ 12V | |
| Pooding Indicators | Top illumination, Good Read Spot ^c , | |
| Reading Indicators | Beep, Vibration | |
| | USB, RS-232, Ethernet | |
| Interfaces Supported | see page 10 for a listing of available | |
| | interface options | |

a. Mean value reading in 1 sec.

b. Peak consumption with 10% tolerance

c. Not available for AR model.

| ENVIRONMENTAL CHARACTERISTICS | | |
|---|--|--|
| Operating Temperature | -20° to 50° C (-4° to 122° F) -30° to 50° C (-22° to 122° F) (for AR model) | |
| Storage Temperature | -40° to 70° C (-40° to 158° F) | |
| Humidity | 0 to 95% non-condensing | |
| Drop Resistance | Withstands 50 drops from 2.5 m/8.2 ft @20° C; Withstands 50 drops from 2.0 m/6.6 ft @-20° C | |
| Ambient Light Immunity | 100,000 Lux | |
| Contaminants: Spray/rain, Dust/particulates | IP67 and IP65 | |
| ESD Protection | 20 KV | |
| Regulatory | See Regulatory Addendum | |
| OPTICAL CHARACTERISTICS | | |
| Optical Format | 1/4" | |
| Imager Sensor | 1280 H x 800 V | |
| Illumination System | SR, HP, DC: White LED AR: 1 red LED (near field) + 1 red LED (far field) DPX: White, Red and Blue LED | |

| | DPX: White, Red and Blue LED | |
|----------------------|---|--|
| Aiming System | SR, HP, DC: 630 - 680 nm VLD AR, DPX: 650nm VLD | |
| Reading Angle | SR, HP, DC: Pitch: +/- 52°; Skew: +/- 52° AR: Pitch: +/- 60°; Skew: +/- 60° DPX: Pitch: +/- 52°; Skew: +/- 52° | |
| Field of View | HP: 38° x 24° SR: 38° x 24° DC: 51° x 33.5° AR: Near field 34°H x 22°V Far field 12°H x 7.5°V DPX: 38° x 29° | |
| Print Contrast Ratio | SR, HP, DC: minimum 15% AR: minimum 20% DPX: minimum 15% | |

DECODE CAPABILITY

1D Bar Codes

GS1 Databar linear codes, UPC/EAN (A,E,13,8), including P2/P5 Addons, ISBN ,ISSN, Code128, EAN128, ISBT128, Code39, Code39 Full ASCII, Code39 CIP, Code 32, Trioptic, Interleaved 2 of 5, IATA, Industrial 2 of 5, Standard 2 of 5, matrix2 of 5, datalogic 2 of 5, follet 2 of 5, Codabar, Code11, MSI, Plessey, Code 93, Pharmacode, BC412

2D / Stacked Codes

DataMatrix (square, rectangular), MaxiCode ,QR Codes,(QR, Micro QR and Multiple QR codes), Aztec

Postal codes including: Australian Post, China Post, Japanese Post, KIX Post, Planet Code, Postnet, Royal Mail Code(RM45CC), IMB, Sweden Post,Portugal Post, LaPoste A/R 39 Stacked codes including EAN/JAN Composites, GS1 Databar Composites, GS1 Databar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional, PDF417, Macro PDF, Micro PDF417, China sensible, DotCode

Other

OCR, Digimarc^a

a. Not available for AR and DPX model.

| DOF - DEPTH | OF FIEL | .D ^A (TYPICAL) | |
|-------------|------------------|---|--|
| Symbology | DOF range | | |
| | AR Optics: | | |
| Code 39 | 3 mils: | 13-95 cm (5.1- 37.4in) | |
| | 20 mils: | up to 600 cm (up to 236.2in) | |
| | SR Optics | :: | |
| | 5 mils: | 6.4-30.9 cm (2.5-12.2 in) | |
| | 20 mils: | 4-103.7 cm (1.6-40.8 in) | |
| | 40 mils: | 5.5-175 cm (2.2-68.9 in) | |
| | DC Optics | i: | |
| | 5 mils: | 3.1-39.7 cm (1.2-15.6 in) | |
| | 20 mils: | 3.5-119.1 cm (1.3-46.9 in) | |
| | | 4.5-186.6 cm (1.7-73.4 in) | |
| | HP Optics | i: | |
| Code 128 | 2.5 mils: | 6.3-11.5 cm (2.5-4.5 in) | |
| | 5 mils: | 3.8-41 cm (1.5-16.1 in) 4-157 cm (1.6-61.8 in) | |
| | 20 mils: | 4-157 cm (1.6-61.8 in) | |
| | 40 mils: | 5.5-242.9 cm (2.1-95.6 in) | |
| | AR Optics | | |
| | | up to 1000 cm (up to 393.7 in) | |
| | | up to 2000 cm (up to 787.4 in) | |
| | DPX Optics: | | |
| | | 2.5-9.8 cm (1.0-3.9 in) | |
| | 5 mils: | 2.5-16.9 cm (1.0-6.7 in) | |
| | SR Optics | :: | |
| | 13 mils: | 4-67.5 cm (1.5-26.5 in) | |
| | DC Optics | i: | |
| | 13 mils: | 3.5-102 cm (1.3-40.1 in) | |
| EAN13 | HP Optics | 5: | |
| EANTS | 13 mil: | 4-120.2 cm (1.5-40.2 in) | |
| | AR Optics | | |
| | 13 mils: | up to 320 cm (up to 126 in) | |
| | DPX Optic | cs: | |
| | 13 mils: | 2.5-22.5 cm (1.0-8.9 in) | |
| | HP Optics | :: | |
| | | 0.5-46.1 cm (0.2-18.1 in) | |
| PDF417 | DPX Opti | cs: | |
| | | 2.0-14.7 cm (0.8-5.8 in) | |
| | 10 mils: | 1.0-21.5 cm (0.4-8.5 in) | |
| | 1 | | |

ODATALOGIC

| | SR Optics: | | |
|----------------|--|---|--|
| | 10 mils: | 6.4-30 cm (2.5-11.8 in) | |
| | DC Optics: | | |
| | 10 mils: | 4.2-30.2 cm (1.6-11.8 in) | |
| | HP Optics: | | |
| | 4 mils: | 6.5-9.3 cm (2.5-3.6 in) | |
| Datamatrix | 10 mils: | 4.2-32.1 cm (1.6-12.6 in) | |
| Datamatrix | AR Optics: | | |
| | 10 mils: | up to 110 cm (up to 43.3 in) | |
| | 55 mils: | up to 650 cm (up to 255.9 in) | |
| | | up to 1000 cm (up to 393.7 in) | |
| | DPX Optics: | | |
| | 5 mils: | 2.0-10.0 cm (0.8-3.9 in) | |
| | 10 mils: | 2.0-16.2 cm (0.8-6.4 in) | |
| | SR Optics: | | |
| | SK Uptics | | |
| | | s, 2D = 6 mils | |
| | | s, 2D = 6 mils | |
| | 1D = 3 mil DC Optics | s, 2D = 6 mils | |
| | 1D = 3 mil DC Optics | s, 2D = 6 mils :• s, 2D = 5 mils | |
| | 1D = 3 mile DC Optics 1D = 3 mile HP Optics | s, 2D = 6 mils :• s, 2D = 5 mils | |
| Max Resolution | 1D = 3 mile DC Optics 1D = 3 mile HP Optics 1D = 2.5 m AR Optics | s, 2D = 6 mils : s, 2D = 5 mils : iils, 2D = 4 mils : | |
| Max Resolution | 1D = 3 mil DC Optics 1D = 3 mil HP Optics 1D = 2.5 m | s, 2D = 6 mils : s, 2D = 5 mils : iils, 2D = 4 mils : | |
| Max Resolution | 1D = 3 mill DC Optics 1D = 3 mill HP Optics 1D = 2.5 m AR Optics 1D = 2.5 m PDF = 3 m | s, 2D = 6 mils : s, 2D = 5 mils : hils, 2D = 4 mils : hils, ils | |
| Max Resolution | 1D = 3 mill DC Optics 1D = 3 mill HP Optics 1D = 2.5 m AR Optics 1D = 2.5 m PDF = 3 m Datamatri | s, 2D = 6 mils : s, 2D = 5 mils : nils, 2D = 4 mils : nils, ils x = 5 mils | |
| Max Resolution | 1D = 3 mill DC Optics 1D = 3 mill HP Optics 1D = 2.5 m AR Optics 1D = 2.5 m PDF = 3 m Datamatri DPX Optics | s, 2D = 6 mils : s, 2D = 5 mils : nils, 2D = 4 mils : nils, ils x = 5 mils : : : | |
| Max Resolution | 1D = 3 mil DC Optics 1D = 3 mil HP Optics 1D = 2.5 m AR Optics 1D = 2.5 m PDF = 3 m Datamatri DPX Optic 1D = 2 mil | s, 2D = 6 mils : s, 2D = 5 mils : nils, 2D = 4 mils : nils, ils x = 5 mils : s | |
| Max Resolution | 1D = 3 mill DC Optics 1D = 3 mill HP Optics 1D = 2.5 m AR Optics 1D = 2.5 m PDF = 3 m Datamatri DPX Optics | s, 2D = 6 mils : s, 2D = 5 mils : nils, 2D = 4 mils : nils, ils x = 5 mils : s | |

 All labels grade A, typical environmental light, 20°C, label inclination 10°. Only for AR model: All labels grade A, ambient light level 200-300lux, pitch angle 10°, tilt angle 10°, skew angle 0°, room temperature 20°C.

LED AND BEEPER INDICATIONS

The reader's beeper sounds and its LED illuminates to indicate various functions or errors on the reader. An optional "Green Spot" also performs useful functions (not available in AR model). The following tables list these indications. One exception to the behaviors listed in the tables is that the reader's functions are programmable, and so may or may not be turned on. For example, certain indications such as the power-up beep can be disabled using programming bar code labels.

| INDICATION | LED | BEEPER |
|-----------------------------------|---|---|
| Power-up | Upper LED flashes/blinks on power-up, however, this may be too rapid to view. With a USB interface, the LED blinks until enumeration with the host is completed. | Reader beeps four times at highest frequency and volume upon power-up. |
| Good Read | LED behavior for this indication is configurable via the feature "Good Read: When to Indicate" (see the PRG for information). The Green spot turns on for a configurable time (not available in AR model). | The reader will beep once at current frequency, volume, mono/bi-tonal setting and duration upon a successful label scan. |
| ROM Failure | Flashes | Reader sounds 4 long beeps. |
| Limited Scanning Label Read | N/A | Reader 'chirps' six times at the highest frequency and current volume. |
| Reader Disabled | The LED blinks continuously 100mS on / 900mS off | N/A |
| lmage Capture | Blue light | N/A |

OIDOJATACO

TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | POSSIBLE SOLUTION |
|---|--|---|
| Nothing happens when the scan button is pulled. | No power to the reader. | Check system power. Ensure power supply is connected. |
| | Interface or power cables are loose. | Ensure all cable connections are secure. |
| LED comes on, but bar code does not decode. | Reader not programmed for correct bar code type. | Ensure reader is programmed to read the type of bar code scanned. Refer to the PRG for more information. |
| | Bar code label is unreadable. | Check the label to ensure it is not defaced. Try scanning another bar code type. |
| | Distance between reader and bar code is incorrect. | Move the reader closer to or further from the bar code. |
| Bar code is decoded but not transmitted to the host. | Reader not programmed for the correct host type. | Scan the appropriate host type bar code. Refer to the PRG for more information. |



NOTE: For detailed troubleshooting, refer to the PRG (Product Reference Guide)

CLEANING PROCEDURE

Proper cleaning is needed on the external plastic surfaces and output window to guarantee reliable scanning and charging of the battery.

A regular cleaning routine will remove the dust and dirt that may accumulate on the product over time. The maintenance activity may be repeated more frequently depending on the severity of the environment in which the scanner is used.

A periodic deeper cleaning is suggested once per month.



CAUTION: Do not use abrasive pads or cleaning agents.



WARNING: Be sure to turn off power and unplug the device from electrical outlet before cleaning.

Common Cleaning Solutions

The cleaners and disinfectants (or their equivalent) listed below have been tested for use on the PowerScan[™] 9600.

| PRODUCT | CHEMICAL CONTENT |
|---|---|
| Alcohol Wipes | 70% Isopropyl Alcohol |
| Formula 409® Glass and Surface Cleaner | n-Alkyl Dimethyl Benzyl Ammonium Chloride; n-Propoxypropanol |
| Windex [®] Multisurface | 2-Hexoxyethanol, Butoxypropanol |
| Clorox® Bleach; | Diluted to reach max 0.8% of concentration |
| Clorox Healthcare Bleach | Sodium Hypochlorite; |
| Germicidal Cleaner | Sodium Hydroxide |
| Hydrogen Peroxide | 3% |
| 100% Gentle dish soap and water | |





NOTE: Disinfectants may be harsh on metal. They are recommended for use only on enclosures.



CAUTION: DO NOT spray or pour cleaner directly onto the unit.

DO NOT use solutions in their concentrated form. DO NOT use aerosols, solvents or abrasives. DO NOT use paper towels or rough cloths to clean windows.

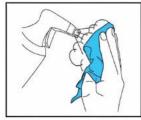


NOTE: The PowerScan™ 9600 is tolerant to occasional contact to the following industrial fluids:

- Brake fluid (DOT3)
- Carburetor Cleaner (STP)
- Gasoline
- Motor oil (SAE30)
- Automatic Transmission Fluid (ATF)

Cleaning enclosure and window surfaces

- Moisten a soft cloth with a recommended cleaning solution. Be sure to apply the solution to your cloth first. Wring excessive liquid from the cloth.
- Use the cloth to wipe down the surface of the unit. Use cotton swabs, lightly moistened, to reach in corners and crevices.
- 3. Use another clean dry cloth to remove any residue of the cleaning agent and ensure the unit is dry.





ERGONOMIC RECOMMENDATIONS



CAUTION: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Technical Support

Support Through the Website

Datalogic provides several services as well as technical support through its website. Log on to (www.datalogic.com). For quick access, from the home page click on the search icon $\[mathbb{Q}\]$, and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

Hover over the Support & Service menu for access to Services and Technical Support.

Reseller Technical Support

An excellent source for technical assistance and information is an authorized Datalogic reseller. A reseller is acquainted with specific types of businesses, application software, and computer systems and can provide individualized assistance.



WARRANTY

Datalogic warrants that the Products shall be free from defects in materials and workmanship under normal and proper use during the Warranty Period. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update Products once sold. The Warranty Period shall be **three years** from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic.

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Datalogic S.r.l.

Via S. Vitalino, 13 | 40012 Calderara di Reno | Bologna - Italy Tel. +39 051 3147011 | Fax +39 051 3147205