PowerScan™ PM96XX

QUICK REFERENCE GUIDE

Industrial Cordless Handheld
Area Imager Bar Code Reader™

DATALOGIC

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POWERSCAN™ PM96XX

ABOUT THE SCANNER

The PowerScan™ PM96XX 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	FEATURES
-SRxxxRB	Standard Range, standard and low density codes
-HPxxxRB -DHPxxxRB -DKHPxxxRB	High Performance, High, standard and low density codes. DHP is related to 4-key version and DKHP is related to 16-key version.

General Features

FEATURE	DESCRIPTION
Omni-directional Operating	To read a symbol or capture an image, you simply aim the reader and pull the trigger. Since the PowerScan™ PM96XX is a powerful omni-directional reader, the orientation of the symbol is not important.
Decoding	Thanks to powerful algorithms, PowerScan™ PM96XX reliably decodes all major 1D (linear) bar codes, 2D stacked codes (such as PDF417), 2D matrix symbols (such as DataMatrix), postal codes (such as POSTNET, PLANET). 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™ PM96XX can also function as a camera by capturing entire images or image portions of labels, signatures, and other items.
Autoscanning	An autoscan command causes the reader to scan continuously and to monitor the central zone of its reading area.
Flash Memory	Flash technology allows you to upgrade the PowerScan™ PM96XX 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 bar codes. This feature can be enabled using either Datalogic Aladdin™ or the bar codes in the USA Driver License Parsing Quick Reference Guide (QRG), available on the Datalogic website.

PM96XX 4-key and 16-key Models

The PM96XX series offers two display options: 4 configurable keys and a full 16-key keyboard. This increases interaction between the host and the user allowing a two-way exchange of information for more reliable and effective communications.

The table below illustrates the key functions of the two models.

	The 4-key keyboard has two fully configurable generic Function keys (F1 and F2) and two arrow keys. These keys are fully customizable to perform specific tasks (e.g. scrolling the list of items, navigating menus, etc.). For all related features and how to configure them, refer to the Product Reference Guide.
	The 16-key keyboard is active in numeric data-entry mode by default. It means you can enter any numeric combination including '.' (F2 key). By pressing the yellow arrow key (bottom left corner) you switch to the alphanumeric keyboard which enables the T9-type data entry mode (i.e. consecutive and rapid pressing of the same key makes different characters appear on the display). Additional function keys are available: • F1 key turns ON/OFF the backlight of the keyboard • F3 key deletes the last character entered • F4 key clears the entire screen To send the numeric / alphanumeric string to the host, press the green Enter key in the lower right corner.

USING THE POWERSCAN™ PM96XX

The PowerScan™ PM96XX normally functions by capturing and decoding codes. Turn on the scanner by pressing the trigger for 2 seconds. When the scanner starts up, it vibrates. After the vibration, the trigger can be released and the startup phase ends.

Table 1 - Aiming System

MODEL	AIMER PATTERN
-SRxxxRB -HPxxxRB -DHPxxxRB -DKHPxxxRB	

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 elements (mil size) should be read closer to the unit. Symbologies with larger elements (mil size) should be read farther from the unit.

Successful reading is signaled by an audible tone plus a good-read green spot LED indicator and vibration. Reference the PowerScan™ 9600 Family Product Reference Guide (PRG) for more information about this feature and other programmable settings.

SETTING UP THE READER

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

1. Physically mount the Base station and connect it to the Host as described in the BC96xx Quick Reference Guide.
2. Charge the Batteries (see page 4).
3. Link to the Base Station (see page 5).
4. Select the Interface Type (see page 5).
5. Configure the Reader starting on page 13 (optional, depends on settings needed).

NOTE: According to recent modification of Regulation for shipping Li-Ion based battery packs, the products and their spare battery packs parts are shipped with a very low residual charge (low state of charge).
Hence the needs:
• that a new product must be fully recharged before starting to use it.
and
• that battery packs of the stocked products PM96xx and spare battery pack parts must be periodically recharged. For instance, by using a BC96xx base station powered up with a 12V Datalogic AC/DC adapter (cod.8-0935) for at least 30 minutes each 3 months.

CHARGING THE BATTERIES

Once the BC96XX is powered, you can charge the reader's batteries. Place the PowerScan™ PM96XX into the BC96XX base station. The LEDs on the base station / battery charger turn green and flash orange / green when recharging begins.

The battery is completely charged when the reader LED on the base station / battery charger turns green.

The battery can also be charged using the Multi Battery Charger accessory.

The Battery Status information can be easily retrieved by double-tapping with your fingers on top of the head of the scanner

NOTE: The PowerScan PM96XX may get warm during charging: this is normal and does not mean a malfunction.

NOTE: Before using the battery, read "Battery Safety" on page 29. Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance.

LINKING THE READER

Link Datalogic RF Devices to Base

For RF devices, before configuring the interface it is necessary to link the handheld with the base.

To link the handheld and the base, press the trigger to wake up the handheld and mount it into the base.

See the Radio Characteristics table on page 20 for the maximum number of handhelds that can be simultaneously linked to a single base station.

If the reader was previously linked to another base, you must first press and hold the button on the base (>5 seconds), then scan the Unlink bar code before re-linking to the new base.

Unlink

SELECTING THE INTERFACE TYPE

Upon completing the physical connection between the reader base station 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, Keyboard Wedge, USB, 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 Keyboard Wedge. 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 base charger before repeating.

SERIAL INTERFACE
RS-232 standard interface Select RS232-STD
RS-232 Wincor-Nixdorf Select RS232-WN
RS-232 for use with OPOS/UPOS/JavaPOS Select RS-232 OPOS
USB Com to simulate RS-232 standard interface Select USB-COM-STD[a]

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

USB-OEM

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

Select USB-OEM

USB FOR TERMINALS

USB HID POS

Select USB HID POS

USB Toshiba TEC

Select USB Toshiba TEC

USB FOR MAGELLAN SCANNERS

USB for Magellans

Select USB Magellan Scanners

ETHERNET

Select Ethernet Interface

KEYBOARD
USB Keyboard with standard key encoding Select USB Keyboard
USB Keyboard with alternate key encoding Select USB Alternate Keyboard
USB Composite ★ Select USB-Composite
AT, PS/2 with standard key encoding Select KBD-AT
AT, PS/2 with alternate key encoding Select KBD-AT-ALT

★ Factory setting

COUNTRY MODE

If using one of the Keyboard Interfaces, select the specific country / language supported by the keyboard. Read the ENTER / EXIT code before and after the Country Mode selection.

COUNTRY MODE
ENTER/EXIT PROGRAMMING MODE
★ Country Mode = US
Country Mode = Belgium
Country Mode = Croatia
Country Mode = Czech Republic

★ = Default Value

COUNTRY MODE (CONTINUED)
Country Mode = Denmark
Country Mode = France
Country Mode = French Canadian
Country Mode = Germany
Country Mode = Hungary
Country Mode = Italy

COUNTRY MODE (CONTINUED)
Country Mode = Japanese 106-Key
Country Mode = Lithuanian
Country Mode = Norway
Country Mode = Poland
Country Mode = Portugal
Country Mode = Romania

COUNTRY MODE (CONTINUED)
Country Mode = Spain
Country Mode = Sweden
Country Mode = Slovakia
Country Mode = Switzerland
Country Mode = United Kingdom

PROGRAMMING

The reader is factory-configured with a set of standard default features. Customize your reader using the programming bar codes available in the PowerScan™ PM96XX Product Reference Guide or using Datalogic Aladdin software configurator. 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 "Reset Default Settings" label 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 customization of the programming functions. 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 initial configuration. See 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.

Reset Default Settings

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™ PM96XX" on page 3 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.

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 Sense is active and if the scanner detects motion the aiming pattern is turned on. 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”[1] 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”[1] has elapsed. Reading a label does not disable scanning. Double Read Timeout[1] 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”[1] has elapsed. Reading

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

a label does not disable scanning. Double Read Timeout[1] 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 Timeout[1] prevents undesired multiple reads.

Flashing — The reader illuminator flashes on and off regardless of the trigger status. Code reading takes place only during the Flash On[1] time. Double Read Timeout[1] 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.

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

SCAN MODE
ENTER/EXIT PROGRAMMING MODE
★ Scan Mode = Trigger Single

★ = default value

1. Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.

SCAN MODE (CONTINUED)
Scan Mode = Trigger Pulse Multiple
Scan Mode = Trigger Hold Multiple
Scan Mode = Flashing
Scan Mode = Always On
Scan Mode = Stand Mode
Scan Mode= Retained Trigger Hold Multiple

Set Date and Time (optional)

1. Scan the Enter / Exit Programming bar code below to set date and time.

ENTER / EXIT PROGRAMMING MODE

2. Scan the Set Date bar code + six digits for Year, Month and Day (YYYYMMDD) from the "Hex-Numeric Keypad" on page 31.

Set Date

3. Scan Set Time + six digits for Hours, Minutes and Seconds (HHMMSS) from the "Hex-Numeric Keypad" on page 31.

Set Time

4. Scan the Enter/Exit Programming bar code to complete the procedure.

TECHNICAL SPECIFICATIONS

The following table contains Physical and Performance Characteristics, User Environment and Regulatory information.

PHYSICAL CHARACTERISTICS	
Color	Yellow/Black
Dimensions	Height 19.0 cm (7.5'') Length 14.0 cm (5.5") Width 7.9 cm (3.1")
Weight	Approx. 318 gr. (11.2 oz.)
ELECTRICAL CHARACTERISTICS	
Battery Type	Li-ion battery pack
Time of Recharge typical @ 25°C ambient temperature	
Base Charger Supply Voltage	BC9630: Host power 5VDC +/-5%(*) or 10-30 VDC +/-5% External power 10-30 VDC +/-5% BC9631: Host power 5VDC +/-5%(*) or 10-30 VDC +/-5% BC9680: External power 5VDC +/-5% or 10-30 VDC +/-5% (*) with approved interface cables
Base Charger Power Consumption	max. 1.5 A (charging) max. 500 mA @5 V (charging)
External Power	typ. 2h 50' with 3300 mAh Li-Ion battery, fast charge @ 24V
Host Power USB	typ. 15h 15' with 3300 mAh Li-Ion battery
Host Power USB type C	typ. 6h with 3300 mAh Li-Ion battery
Interfaces Supported	USB, RS-232, Ethernet and Keyboard Wedge
Max. Scan Rate	50 frames/sec
Reading Indicators	Top and rear illumination, Good Read Spot, Beep, Vibrator

ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	-20° to 50° C (-4° to 122° F)
Recharging Temperature[a]	Recommended 0° to 35° C (32° to 95° F) Max allowed 0° to 40° C (32° to 104° F)
Storage Temperature	-40° to 70° C (-40° to 158° F)
Humidity	0 to 95% non-condensing
Drop Resistance	Withstands 50 drops from 2.4 m/8 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

a. **NOTE**: The higher the ambient temperature, the longer the charging time.

OPTICAL CHARACTERISTICS	
Optical Format	1/4"
Imager Sensor	1280 H x 800 V
Illumination System	White LED
Aiming System	630 - 680 nm VLD
Reading Angle	All models:Pitch: +/- 52°; Skew: +/- 52°
Field of View	HP: 38° x 24° STD: 38° x 24°
Print Contrast Ratio	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, rettangular), 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, MacroPDF, Micro PDF417, China sensible, DotCode
Other: OCR, Digimarc

REGULATORY
See Regulatory Addendum

RADIO CHARACTERISTICS		
Frequency working center	433MHZ	910MHZ
Programmable Speed	19.2 kb/s 500 kb/s (default)	36.8 kb/s 500 kb/s (default)
Typical Range (in open air)	100 m (at 500 kb/s) 150 m (at 19.2 kb/s)	180 m (at 500 kb/s) 230 m (at 36.8 kb/s, frequency hopping) 80 m (at 36.8 kb/s, fixed channel)
Max number of devices per base station	16	

NOTE: A radio coverage reduction is expected when the base station is charging a gun.

DOF - DEPTH OF FIELD (TYPICAL)[A]	
Symbology	**DOF range**
Code 128	PM96XX: 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) PM96XX-HP: 2.5 mils: 6.3-11.5 cm (2.5-4.5 in) 5 mils: 3.8-41 cm (1.5-16.1 in) 20 mils: 4-157 cm (1.6-61.8 in) 40 mils: 5.5-242.9 cm (2.1-95.6 in)
EAN13	PM96XX: 13 mils: 4-67.5 cm (1.5-26.5 in) PM96XX-HP: 13 mil: 4-120.2 cm (1.5-40.2 in)
PDF417	PM96XX-HP: 10 mils: 0.5-46.1 cm (0.2-18.1 in)
Data Matrix	PM96XX: 10 mils: 6.4-10 cm (2.5-3.9 in) PM96XX-HP: 4 mils: 6.5-9.3 cm (2.5-3.6 in) 10 mils: 4.2-32.1 cm (1.6-12.6 in)
Max Resolution[b]	PM96XX: 1D = 3 mils, 2D = 6 mils PM96XX-HP: 1D = 2.5 mils, 2D = 4 mils

a. All labels grade A, typical environmental light, 20°C, label inclination 10°
b. 1D codes are Code 39 and 2D codes are Data Matrix

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. 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 Beep	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 Beep	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.	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
Image Capture	Blue light	N/A
Double TAP	The scanner turns on the LED for a few seconds indicating the state of the battery. Green: completely charged. Orange: half charge. Red: low battery.	N/A

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 is not decoded.	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 to scan another bar code type.
	Distance between reader and bar code is incorrect.	Move imager 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).

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.

Datalogic will not be liable under the warranty if the Product has been exposed or subjected to any: (1) maintenance, repair, installation, handling, packaging, transportation, storage, operation or use that is improper or otherwise not in compliance with Datalogic's instruction; (2) Product alteration, modification or repair by anyone other than Datalogic or those specifically authorized by Datalogic; (3) accident, contamination, foreign object damage, abuse, neglect or negligence after shipment to Buyer; (4) damage caused by failure of a Datalogic-supplied product not under warranty or by any hardware or software not supplied by Datalogic; (5) any device on which the warranty void seal has been altered, tampered with, or is missing; (6) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items; (7) use of counterfeit or replacement parts that are neither manufactured nor approved by Datalogic for use in Datalogic-manufactured Products; (8) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.; (9) loss of data; (10) any consumable or equivalent (e.g. cables, power supply, batteries, etc.); or (11) any device on which the serial number is missing or not recognizable.

THE DATALOGIC WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY BUYER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THE WARRANTY STATEMENT IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. NO EXTENSION OF THIS WARRANTY WILL BE BINDING UPON DATALOGIC UNLESS SET FORTH IN WRITING AND SIGNED BY DATALOGIC'S AUTHORIZED REPRESENTATIVE. DATALOGIC'S LIABILITY FOR DAMAGES ON ACCOUNT OF A CLAIMED DEFECT IN ANY PRODUCT DELIVERED BY DATALOGIC SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT ON WHICH THE CLAIM IS BASED. DATALOGIC SHALL NOT BE LIABLE FOR DAMAGES RELATING TO ANY INSTRUMENT, EQUIPMENT, OR APPARATUS WITH WHICH THE PRODUCT SOLD UNDER THIS AGREEMENT IS USED. Further details on warranty coverage, rights and conditions are addressed under and regulated by the Terms and Conditions of Sales of Datalogic available at https://www.datalogic.com/terms_conditions_sales.

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 , 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.

CLEANING PROCEDURE

Proper cleaning is needed on the external plastic surfaces, output window and electrical contacts 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.

Cleaning plastic surfaces

Exterior surfaces and scan windows exposed to spills, smudges or debris accumulation require periodic cleaning to ensure best performance during scanning operations. Follow the procedures described in this instruction sheet to keep your PowerScan™ device in good operating condition.

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

CAUTION: DO NOT use abrasive pads or cleaning agents.

Common Cleaning Solutions

The cleaners and disinfectants listed below are recommended for use on Datalogic Disinfectant-Ready Enclosures:

PRODUCT	CHEMICAL CONTENT
Sani-Cloth® HB, Sani-Cloth® Plus, Super Sani-Cloth®	Quaternary Ammonium Chloride solution
Hepacide Quat II	Virucidal disinfectant cleaner
Alcohol Wipes	70% Isopropyl Alcohol
CaviWipes™	Isopropanol 10-20%; Ethylene Glycol Monobutyl Ether 1-5%
Virex® 256	n-Alkyl Dimethyl Benzyl Ammonium Chloride; Didecyl Dimethyl Ammonium Chloride
Formula 409® Glass and Surface Cleaner	n-Alkyl Dimethyl Benzyl Ammonium Chloride; n-Propoxypropanol

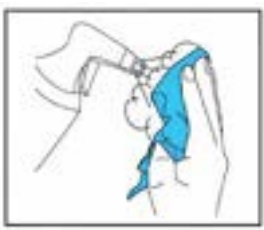
PRODUCT	CHEMICAL CONTENT
Windex® Blue	Isopropyl Alcohol
Clorox® Bleach; Clorox Healthcare Bleach Germicidal Cleaner	Sodium Hypochlorite; Sodium Hydroxide
Hydrogen Peroxide	3%
ProSpray™ Wipes (Disinfectant towelettes}	0.647% o-phenylphenol; 0.070% o-benzyl-p-chlorophenol
100% Gentle dish soap and water	

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.

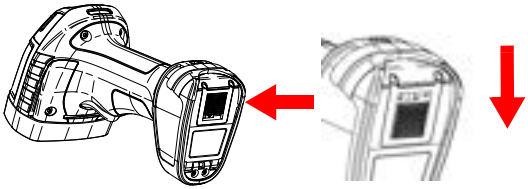
Cleaning enclosure and window surfaces

1. 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.
2. 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.

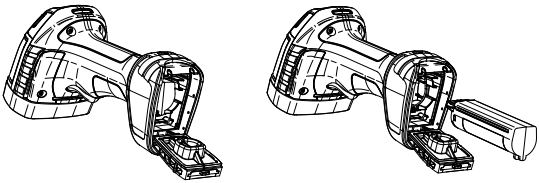


CHANGING THE BATTERIES

1. Push in and slide the battery lock down to open the battery door, as shown below.



2. Open the battery door and extract the battery.



3. Invert the sequence to insert the battery and lock the battery door.

WARNING: Do not incinerate, disassemble, short terminals or expose to high temperature. Risk of fire, explosion. Use specified charger only. Risk of explosion if the battery is replaced by an incorrect type. Dispose of the batteries as required by the relevant laws in force.

BATTERY SAFETY

To install, charge and/or do any other action on the battery, follow the instructions in this manual.

NOTE: To charge the Battery Pack, See "Changing the Batteries" on page 28. Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance.

WARNING: Do not discharge the battery using any device except for the scanner. When the battery is used in devices other than the designated product, it may damage the battery or reduce its life expectancy. If the device causes an abnormal current to flow, it may cause the battery to become hot, explode or ignite and cause serious injury.
Lithium-ion battery packs may get hot, explode or ignite and cause serious injury if exposed to abusive conditions. Be sure to follow the safety warnings that follow:

- **Do not place the battery pack in fire or heat.**
- **Do not connect the positive terminal and negative terminal of the battery pack to each other with any metal object (such as wire).**
- **Do not carry or store the battery pack together with metal objects.**
- **Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts or shocks.**
- **Do not solder directly onto the battery pack.**
- **Do not expose the battery pack to liquids, or allow the battery to get wet.**
- **Do not apply voltages to the battery pack contacts.**

In the event the battery pack leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

CAUTION: Always charge the battery at 32° – 104°F (0° - 40°C) temperature range.
Use only the authorized power supplies, battery pack, chargers, and docks supplied by your Datalogic reseller. The use of any other power supplies can damage the device and void your warranty.
Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.
Do not place the battery in or near fire, on stoves or other high temperature locations.
Do not place the battery in direct sunlight, or use or store the battery inside cars in hotweather. Doing so may cause the battery to generate heat, explode or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.
Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.
Immediately discontinue use of the battery if, while using, charging or storing the battery, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.
Do not replace the battery pack when the device is turned on.
Do not remove or damage the battery pack's label.
Do not use the battery pack if it is damaged in any part. Battery pack usage by children should be supervised.

As with other types of batteries, Lithium-Ion (LI) batteries will lose capacity over time. Capacity deterioration is noticeable after one year of service whether the battery is in use or not. It is difficult to precisely predict the finite life of a LI battery, but cell manufacturers rate them at 500 charge cycles. In other words, the batteries should be expected to take 500 full discharge / charge cycles before needing replacement. This number is higher if partial discharging / recharging is adhered to rather than full / deep discharging.

The typical manufacturer advertised useful life of LI batteries is one to three years, depending on usage and number of charges, etc., after which they should be removed from service, especially in mission critical applications. Do not continue to use a battery that is showing excessive loss of capacity, it should be properly recycled / disposed of and replaced. For most applications, batteries should be replaced after one year of service to maintain customer satisfaction and minimize safety concerns.

Collect and recycle waste batteries separately from the device in comply with European Directive 2006/66/EC, 2011/65/EU, 2002/96/EC and 2012/19/EU and subsequent modifications, US and China regulatory and others laws and regulations about the environment.

HEX-NUMERIC KEYPAD

Use the bar codes that follow to enter numbers as you would select digits / characters from a keypad.

HEX-NUMERIC KEYPAD
0
1
2
3
4
5

HEX-NUMERIC KEYPAD (CONTINUED)
6
7
8
9
A
B

HEX-NUMERIC KEYPAD (CONTINUED)
C
D
E
F

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