PowerScan™ PBT9600 RFID

QUICK REFERENCE GUIDE

Industrial Cordless Handheld
Area Imager Bar Code RFID Reader™

DATALOGIC

Datalogic S.r.l.
Via S. Vitalino, 13
40012 Calderara di Reno (BO)
Italy
Tel. +39 051 3147011
Fax +39 051 3147205

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the event an action is brought to enforce the terms and conditions of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, both at trial and on appeal.

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- END -

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

NOTES

POWERSCAN™ PBT9600 RFID

ABOUT THE SCANNER

The PowerScan™ PBT9600 RFID is a feature-rich and rugged area imager reader. It is offered in two models to better fit the different needs of each customer. The table below shows the unique features of each model.

MODEL	TYPE	CONNECTIVITY	FEATURE
PBT9600	SR RF	Bluetooth ®	Standard Range, no display. Standard and low density bar codes and UHF RFID tags.
PBT9600	DKDC RF	Bluetooth ®	Document capture, with display and 16 keys keyboard. Standard and low density bar codes and UHF RFID tags.

General Features

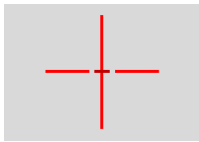
FEATURE	DESCRIPTION
UHF RFID tags reading	To read a UHF RFID tag, simply pull the trigger while the tag is placed within the reading range. To achieve the best performance, face the tags in front of the scanner.
Omni-directional Operating	To read a symbol or capture an image, you simply aim the reader and pull the trigger. Since the PowerScan™ PBT9600 RFID is a powerful omni-directional reader, the orientation of the symbol is not important.
Decoding	Thanks to powerful algorithms, PowerScan™ PBT9600 RFID 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) and is also UHF RFID ready. 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™ PBT9600 RFID can also function as a camera by capturing images.

Flash Memory	Flash technology allows you to upgrade the PowerScan™ PBT9600 RFID 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.

USING THE POWERSCAN™ PBT9600 RFID

The PowerScan™ PBT9600 RFID 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. 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 and DC 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 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 of barcodes is signaled by an audible tone plus a good-read green spot LED indicator and vibration.

Refer to 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.

Aiming Pointer = Disable

★ Aiming Pointer = Enable

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 BC9600 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 8).
5. Configure the Reader starting on page 16 (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 PBT9600 RFID and spare battery pack parts must be periodically recharged. For instance, by using a BC9600 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 BC9600 is powered, you can charge the reader's batteries. Place the PowerScan™ PBT9600 RFID into the BC9600 base station. The LEDs on the base station / battery charger turn green and flash orange (battery state of charge <50%) / green (battery state of charge >50%) during charge.

The battery is completely charged when the LED on the base station / battery charger turns fixed 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 PBT9600 RFID may get warm during charging: this is normal and does not mean a malfunction.

NOTE: Before using the battery, read "Battery Safety" on page 37. Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance.

LINKING THE READER

Link Datalogic Devices to Base

Before configuring the interface, it is necessary to link the handheld with the base.

To link the handheld and the base, simply put the handeld into the base. If the reader was previously linked to another base, you must first scan the **Unlink** bar code before re-linking it to the new base.

Unlink

See the Radio Characteristics table on page 28 for the maximum number of handhelds that can be simultaneously linked to a single base station.

Link Scanner as Serial Device to a Bluetooth Host

Use this procedure to let the PowerScan PBT9600 RFID communicate with a Bluetooth host using the Bluetooth Serial Port Profile (SPP).

1. If using a Bluetooth adapter on the host device, install any driver provided with the adapter.

2. Scan the **Link to Host in SPP mode** label below to make the scanner visible to the host device.

3. Use the Bluetooth manager of the host device to “Discover new devices” and select "PBT9600 RFID...". If you receive an error message, it may be necessary to change the security settings on either the host device or the scanner.

4. Use an RS-232 terminal program to see incoming data on the port designated by the Bluetooth manager of the host device

Link to Host in SPP Mode

Link Scanner as HID device to a Bluetooth host

Use this procedure to let the PowerScan PBT9600 RFID send data to a Bluetooth host using the Bluetooth HID profile.

1. If using a Bluetooth adapter on the host device, install any driver provided with the adapter.

2. Scan the **Link to Host in HID mode** label below to make the scanner visible to the host device.

3. Use the Bluetooth manager of the host device to "Discover new devices" and select "PBT9600 RFID...". If you receive an error message, it may be necessary to change the security settings on either the host device or the scanner.

4. On the host device, open the program that is meant to receive the incoming data.

Link to Host in HID mode

NOTE: The PowerScan PBT9600 RFID can be set up to authenticate the remote system when connecting, by entering a Bluetooth passkey or a PIN code. If you want to set the security level and authentication options suitable for your application, or when adding new equipment to a system that requires authentication or uses a custom security PIN, please see the PRG for information.

POWER OFF

Scan the bar code below to shut off power to the handheld until the next trigger pull.

Power Off

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, USB, etc.). Scan the appropriate bar code to select your system's correct interface type.

Interface Selection

You can select a multi-interface (supporting RS-232 and USB) or an Ethernet interface according to the base model used. 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

★ 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. For a complete list of the available country modes, refer to the Product Reference Guide.

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™ PBT9600 RFID 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™ PBT9600 RFID" on page 2 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 (barcodes)

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

Trigger Single (Default) — This mode is associated with typical handheld reader operation. Motion Sense[1] 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 sense[1] is active. Reading a label does not disable scanning. Double Read Timeout[2] prevents undesired multiple reads while in this mode.

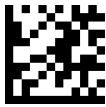
Trigger Hold Multiple — When the trigger is pulled, scanning starts and the product scans until the trigger is released or “Scanning Active Time”[3] has elapsed. Motion

1. If the scanner detects motion the aiming pattern is turned on.
2. See the Product Reference Guide (PRG) for these and other programmable features.

sense[1] is active. Reading a label does not disable scanning. Double Read Timeout[3] prevents undesired multiple reads while in this mode.

Retained Trigger Hold Multiple — Same as Trigger Hold Multiple but all decoded labels are transmitted when the trigger is released. Motion sense[1] is active. The labels can be sorted before transmission.

★ = default value

SCAN MODE
 ENTER/EXIT PROGRAMMING MODE
 ★ Scan Mode = Trigger Single
 Scan Mode = Trigger Pulse Multiple
 Scan Mode = Trigger Hold Multiple
 Scan Mode= Retained Trigger Hold Multiple

3. See the Product Reference Guide (PRG) for these and other programmable features.
1. If the scanner detects motion the aiming pattern is turned on.

RFID Operating Modes

The reader can be set to operate in one of several RFID Operating Modes.

Single Tag — At trigger pull, the reader can read barcodes and/or RFID tags, depending on configuration; but it expects to receive a single RFID tag per scan. If more tags are within RFID coverage, the scanner doesn't transmit any data to its current interface and gives an error indication.

Continuous — Is a RFID specific mode, so no barcode decoding. At trigger pull, all RFID tags within coverage are collected. These tags are then transmitted to the interface only if they weren't already read during a previous session.

Continuous Report — Is a RFID specific mode, so no barcode decoding. At trigger pull, all tags within coverage are collected. These tags are then transmitted only once within the trigger session, regardless of whether the tags were already reported during a previous session.

Continuous Flush — Is a RFID specific mode, so no barcode decoding. At trigger pull, all tags within coverage are collected and transmitted.

RFID Operating Modes - Configuration barcodes

OPERATING MODES
 ★ Single Tag
 Continuous Tag
 Continuous Report
 Continuous Flush

★ Default

SINGLE TAG READING OBJECTS
 Barcode decoding
 RFID Tag only
 ★ Barcode or Tag
 Barcode and Tag

★ Default

RFID OUTPUT POWER
 ★ Level 1 (Min)
 Level 2
 Level 3
 Level 4 (Max)

★ Default

RFID Tag Data Format

The Electronic Product Code (EPC) of the RFID tag can be transmitted in one of the following formats: RAW, GS1-128 or EPC-URI.

RFID TAG DATA FORMAT CONFIGURATION
 ★ RAW
 GS1-128
 EPC Pure Identity URI
 EPC Tag URI

★ Default

RFID Extra Reading Time

When trigger is pressed and both Barcode and RFID are enabled, at first result (Barcode or RFID) the scanner continues to search for addition results for an "Extra_reading_time". Scanner stops the reading phase at the End of "Extra_Reading_Time" when at least on Barcode and one RFID are collected; when trigger is released or when Scanner_elapse_timer occurs. Only one Barcode is allowed per reading phase.

RFID EXTRA READING TIME
 0 mSec
 10 mSec
 20 mSec
 ★ 30 mSec

★ Default

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 + eight digits for Year, Month and Day (YYYYMMDD) from the "Hex-Numeric Keypad" on page 39.

Set Date

3. Scan Set Time + six digits for Hours, Minutes and Seconds (HHMMSS) from the "Hex-Numeric Keypad" on page 39.

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	Black and blue
Dimensions	Height 19.8 cm (7.8") Length 15.0 cm (5.9") Width 7.9 cm (3.11") Base Charger: 24.8 x 10.2 x 9.9 cm / 9.8 x 4.0 x 3.9 in
Weight	PBT9600 SR RF: 430 g / 15.2 oz. (including battery) PBT9600 DKDC RF: 460 g / 16.2 oz. max (including battery) Base Charger: 595 g / 20.9 oz. max
ELECTRICAL CHARACTERISTICS	
Battery Type	Li-ion battery pack
Time of Recharge typical @ 25°C ambient temperature	
External Power	typ. 3h 15' fast charge @ 12V typ. 2h 50' fast charge @ 24V
Host Power USB	typ. 15h 15'
Host Power USB type C	typ. 6h
Interfaces Supported	USB, RS-232
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 2.5 m / 8 ft @20° C / 68 °F; Withstands 50 drops from 2.0 m / 6.6 ft @-20° C / -4° F
Ambient Light Immunity	100,000 Lux
Water/Dust Protection Degree	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	Dual camera for PBT9600 DKDC RF 1280 H x 800 V
Illumination System	White LED
Aiming System	660nm Class 2 laser diode according to IEC / EN 60825-1 2014
Reading Angle	Pitch: +/- 52°; Skew: +/- 52°
Field of View	PBT9600-SRRF: 38° H, 24° V
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, UHF RFID

REGULATORY
See Regulatory Addendum

RADIO CHARACTERISTICS	
	BT models
Frequency working center	2400 to 2483.5 MHz
Programmable Speed	
Typical Range (in open air)	100m
Max number of devices per base station	7
	RADIO RFID
Standard	EPC UHF Class 1 Gen 2 (ISO 18000-6C)
Channel plan/ frequency ranges of operation:	North America: 902 MHz to 928 MHz Europe: 865 MHz to 868 MHz
Type(s) of emission (i.e.: modulation types):	ASK
Transmitter maximum power:	20 dBm

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

DOF - DEPTH OF FIELD[A] (TYPICAL)	
Symbology	**DOF range**
Code 128	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)
EAN13	13 mils: 4-67.5 cm (1.5-26.5 in)
Data Matrix	10 mils: 6.4-30 cm (2.5-11.8 in)
Max Resolution[b]	1D = 3 mils, 2D = 6 mils
RFID frontal reading distance	up to 100 cm (3.2 ft)[c]

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.
c. Depending on tags and environment.

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 Feedback	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.	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 if battery is installed and charged.
LED comes on, but no bar code or RFID tag are decoded.	Reader not properly programmed for correct bar code or RFID tag decoding.	Ensure the reader is programmed to read the type of bar code or RFID tag scanned. Refer to the PRG for more information.
	Unreadable bar code or RFID tag.	Check the bar code to ensure it is not defaced. Try to scan another bar code type or RFID tag.
	Distance between reader and bar code or RFID tag is incorrect.	Move imager closer or further from the bar code. Move imager closer to the RFID tag.
Bar code or RFID tag are read 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 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.

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 (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; Clorox Healthcare Bleach Germicidal Cleaner	Diluted to reach max 0.8% of concentration Sodium Hypochlorite; 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.

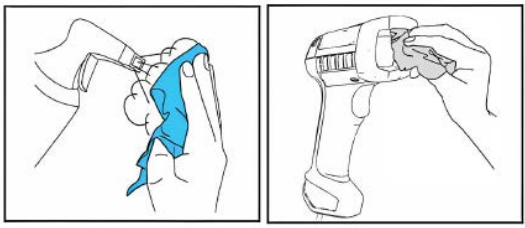
CAUTION: DO NOT spray or pour cleaner directly onto the unit.
DO NOT use solutions in their concentrated form.
DO NOT use aerosols, solvents or abrasives.
DO NOT use paper towels or rough cloths to clean windows.

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)**

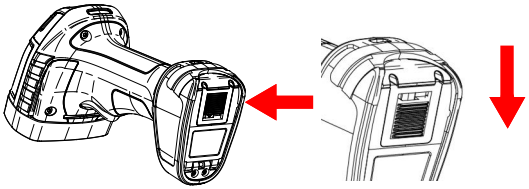
Cleaning enclosure and window surfaces

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.

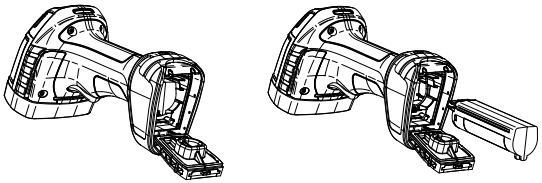


CHANGING THE BATTERIES

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 36. 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.

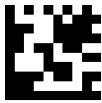
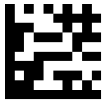
As with other types of batteries, Lithium-Ion (LI) batteries will lose capacity over time. Capacity deterioration is noticeable after one year of service whether the battery is in use or not. It is difficult to precisely predict the finite life of a LI battery, but cell manufacturers rate them at 500 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

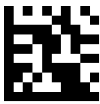
Use the bar codes that follow to enter numbers as you would select digits / characters from a keypad.

HEX-NUMERIC KEYPAD
 0
 1
 2
 3
 4
 5

HEX-NUMERIC KEYPAD (CONTINUED)

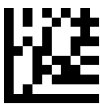
6

7

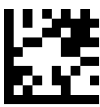


8

9



A



B

HEX-NUMERIC KEYPAD (CONTINUED)

C

D

E

F

DATALOGIC

www.datalogic.com

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

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