

 **DATALOGIC**

# PowerScan™ PD9330

## Industrial Corded Handheld Laser Bar Code Reader



**BSR** IDWARE

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**Quick Reference Guide**

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See [www.patents.datalogic.com](http://www.patents.datalogic.com) for patent list.

**See the Regulatory Addendum included with your product for additional regulatory, safety and legal information.**



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# NOTES

# **DATALOGIC IP TECH S.R.L.**

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**- END -**



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

## **Customers Under Software Support**

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

# NOTES



# PowerScan™ PD9330

## Description

The PowerScan™ 9330 is a feature-rich and rugged laser 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 P/N	Optical feature
PD9330	Standard optic, standard and high density codes
PD9330-AR	Autorange optic, standard and low density code, long depth of field

## General Features

Operating	To read a symbol, you simply aim the reader by a partial trigger press and pull the trigger.
Decoding	Thanks to powerful algorithms, PowerScan™ PD9330 reliably decodes all major 1D (linear) barcodes. 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.
Autoscanning	An autoscan command causes the reader to scan continuously.
Flash Memory	Flash technology allows you to upgrade the PowerScan™ PD9330 reader as new symbologies are supported or as improved decoding algorithms become available.

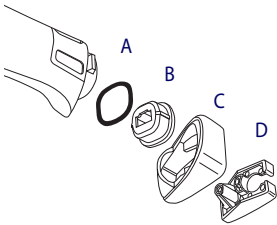
## Setting Up the Reader

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, shown on [page 3](#).
2. Configure the Interface (see [page 6](#)).
3. Configure the Reader starting on [page 16](#) (optional, depends on settings needed)

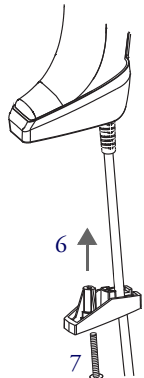
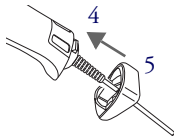
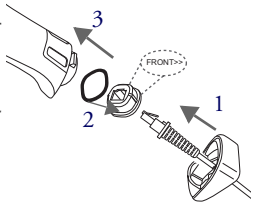
Connect the PowerScan by plugging directly into the host device as shown. The power can also be supplied through an external power supply via the Interface Cable supplied with a power jack.

## Connecting the Cable



- A. Rubber gasket
- B. Cable Holder
- C. Cover
- D. Connector Holder

1. Slip the cable through the Cover.
2. Push the Rubber Gasket onto the Cable Holder.
3. Push the Cable Holder and gasket into the handle. Ensure that the 'Front' marking on the Cable Holder is facing out, with the arrow pointing towards the front of the scanner.
4. Insert the end of the cable into the socket of the Cable Holder.
5. Push the Cover along the cable towards the reader, and hook it over the yellow 'tooth' on the back of the handle.
6. Insert the cable through the Connector Holder, and push it up into the Cover.
7. Insert and tighten the screw to affix the cable assembly to the reader handle.



## Using the PowerScan™ PD9330

The PowerScan™ PD9330 normally functions by capturing and decoding bar codes. The reader is equipped with an aiming system which helps to aim the target.

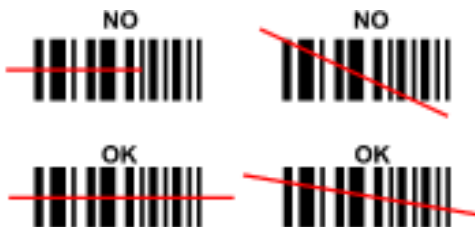
Table 1. Aiming System



PowerScan™ PD9330 provides an aiming system. If enabled, a partial trigger press produces a red spot, which should be aimed over the code center to get the best reading performance, see figure (1) above. By completely pressing the trigger the scan line appears to start the code scanning (2).

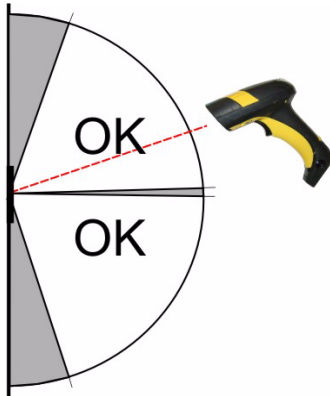
### Scan Line Position

Code scanning is performed along the scan line emitted from the reading window. This line must cross the entire code. The best reading angles are indicated in the figure below:



## Reading Angle

Successful scanning is obtained by tilting the reader with respect to the barcode to avoid direct reflections that impair the reading performance, see the figure below.



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.

If the entire bar code is within the scan line, you will get a good read. Successful reading is signaled by an audible tone plus a good-read green spot LED indicator.

Reference the PowerScan PD9330 Product Reference Guide (PRG) for more information about this feature and other programmable settings.

## Selecting the Interface Type

Upon completing the physical connection between the reader and its host, proceed directly to Interface Selection below for information and programming for the interface type the reader is connected to (for example: RS-232, Keyboard Wedge, USB, etc.) and 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 PD9330 PRG.

### Configuring the Interface

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



#### NOTE

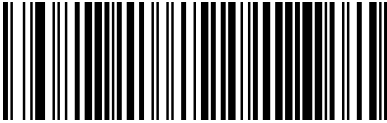
**Unlike some other programming features and options, interface selections require that you scan only one programming bar code label. DO NOT scan an ENTER/EXIT bar code prior to scanning an interface selection bar code.**

**Some interfaces require the scanner to start in the disabled state when powered up. 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 programming with bar codes.**



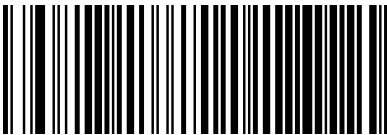
**RS-232**

RS-232 standard interface



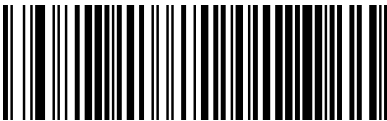
RS-232

RS-232 Wincor-Nixdorf



RS232-WN

RS-232 for use with OPOS/UPOS/JavaPOS



RS-232 OPOS

**USB**

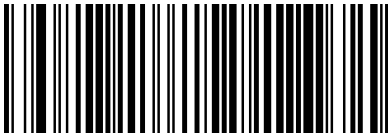
USB Com to simulate RS-232 standard interface



USB-COM<sup>a</sup>

**USB (continued)**

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



USB-OEM

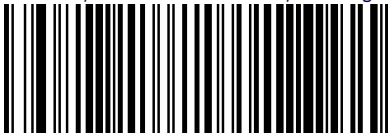
a. Download the correct USB Com driver from [www.datalogic.com](http://www.datalogic.com)

USB Keyboard with standard key encoding



USB-KBD

USB Keyboard with alternate key encoding

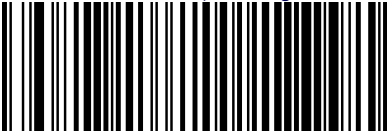


USB-KBD-ALT

## Keyboard Interface

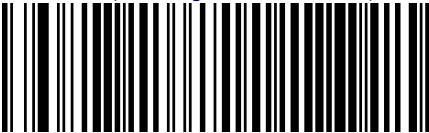
### KEYBOARD WEDGE

IBM AT or PS/2 PCs  
Standard Key Encoding



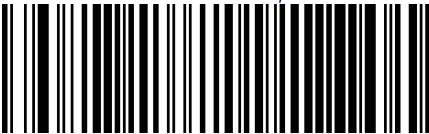
KBD-AT

IBM AT or PS/2 PCs  
Standard Key Encoding without external keyboard



KBD-AT-NK

IBM AT or PS/2 PCs  
w/Alternate Key



KBD-AT-ALT

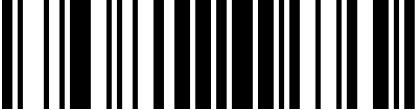
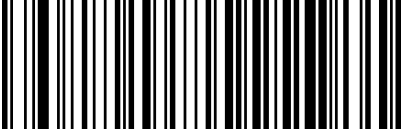
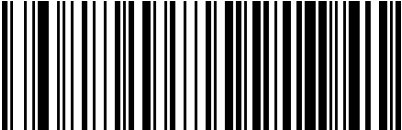


IBM AT or PS/2 PCs  
Alternate Key Encoding without external keyboard



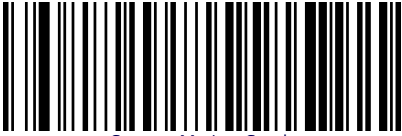
KBD-AT-ALT-NK

## Country Mode

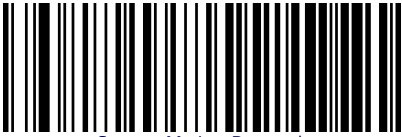
This feature specifies the country/language supported by the keyboard.

COUNTRY MODE
 ENTER/EXIT PROGRAMMING MODE
 Country Mode = U.S.
 Country Mode = Belgium
 Country Mode = Britain
 Country Mode = Croatia

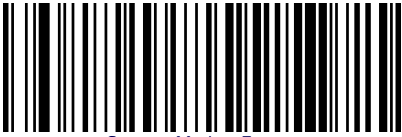
COUNTRY MODE (continued)



Country Mode = Czech



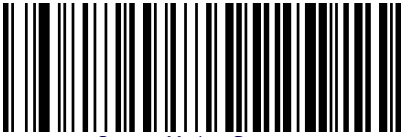
Country Mode = Denmark



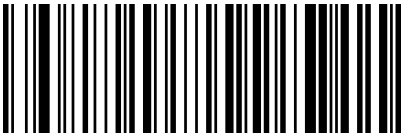
Country Mode = France



Country Mode = French Canadian



Country Mode = Germany



Country Mode = Hungary

**COUNTRY MODE (continued)**



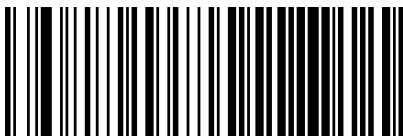
Country Mode = Italy



Country Mode = Japanese 106-key



Country Mode = Lithuanian



Country Mode = Norway

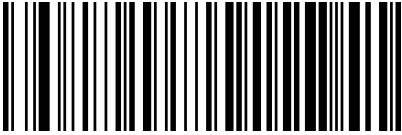


Country Mode = Poland

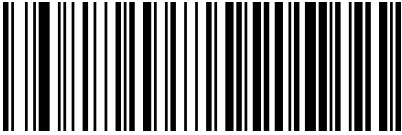


Country Mode = Portugal

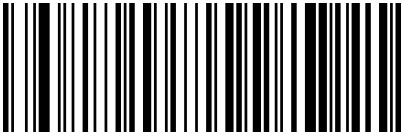
**COUNTRY MODE (continued)**



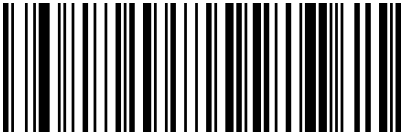
Country Mode = Romania



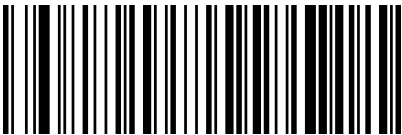
Country Mode = Spain



Country Mode = Sweden



Country Mode = Slovakia



Country Mode = Switzerland

## Caps Lock State

This option specifies the format in which the reader sends character data. This applies to keyboard wedge interfaces. This does not apply when an alternate key encoding keyboard is selected. It does not apply to USB keyboard.



ENTER/EXIT PROGRAMMING MODE



Caps Lock State = Caps Lock OFF



Caps Lock State = Caps Lock ON



Caps Lock State = AUTO Caps Lock Enable



## Numlock

This option specifies the setting of the Numbers Lock (Numlock) key while in keyboard wedge interface. This only applies to alternate key encoding interfaces. It does not apply to USB keyboard.



## 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 PD9330. 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" on page 16, 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 6 for more information.**



Reset Default Settings

## Reading Parameters

Move the reader toward the target and center the aiming spot, then pull the trigger to capture and decode the bar-code. See [Using the PowerScan™ PD9330 on page 4](#) for more information.

The aiming system will switch off after the acquisition time.

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

### Good Read Green Spot Duration

Successful reading can be signaled by a good read green spot. Use the bar codes that follow to specify the duration of the good read pointer beam after a good read.

 <p>ENTER/EXIT PROGRAMMING MODE</p>
 <p>Disabled</p>
 <p>◆ Short (300 ms)</p>
 <p>Medium (500 ms)</p>
 <p>Long (800 ms)</p>

# 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. When the trigger is partially pulled, the aiming spot is turned on, when the trigger is completely pulled the scanner is activated.

Scanning mode remains active until one of the following events occurs:

- the programmable 'maximum scan on time"<sup>1</sup> 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 'maximum scan on time"<sup>1</sup> has elapsed. Reading a label does not disable scanning. Double Read Timeout<sup>1</sup> prevents undesired multiple reads while in this mode.

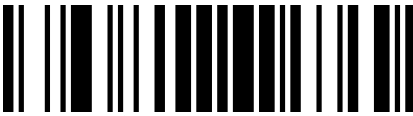
**Trigger Hold Multiple** — When the trigger is pulled, scanning starts and the product scans until the trigger is released or 'maximum scan on time"<sup>1</sup> has elapsed. Reading a label does not disable scanning. Double Read Timeout<sup>1</sup> prevents undesired multiple reads in this mode.

**Always On** — The laser scan line is always ON and the reader is always ready for code reading. Double Read Timeout<sup>1</sup> prevents undesired multiple reads.

**Flashing** — The laser scan line flashes on and off regardless of the trigger status. Code reading takes place only during the Flash On<sup>2</sup> time. Double Read Timeout<sup>1</sup> prevents undesired multiple reads.

1. See the Product Reference Guide (PRG) for these and other programmable features
2. Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.

## Scan Mode (continued)



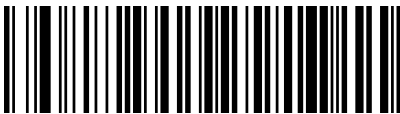
ENTER/EXIT PROGRAMMING MODE



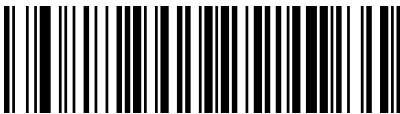
◆ Scan Mode = Trigger Single



Scan Mode = Trigger Pulse Multiple



Scan Mode = Trigger Hold Multiple



Scan Mode = Flashing



Scan Mode = Always On

## Multiple Label Reading

The reader offers a number of options for multiple label reading. See the PRG or software configuration tool for descriptions of these features and programming labels.

## Technical Specifications

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

<b>Physical Characteristics</b>		
Dimensions	Height: 212 mm Length: 110 mm Width: 74 mm	
Weight (without cable)	PD9330 340 g	PD9330-AR 375 g
<b>Electrical Characteristics</b>		
Voltage & Current	<b>PD9330</b>	<b>PD9330-AR</b>
Input Voltage	4.5 / 30 VDC	4.5 / 30 VDC
Input Current		
Operating (typical, scanning)	110 mA @ 4.5 V 105 mA @ 5 V 45 mA @ 12 V 25 mA @ 30 V	180 mA @ 4.5 V 170 mA @ 5 V 70 mA @ 12 V 40 mA @ 30 V
Operating (max, reading)	420 mA @ 4.5 V 360 mA @ 5 V 140 mA @ 12 V 65 mA @ 30 V	480 mA @ 4.5 V 420 mA @ 5 V 160 mA @ 12 V 80 mA @ 30 V
Idle/Standby (typical)	45 mA @ 4.5 V 40 mA @ 5 V 20 mA @ 12 V 12 mA @ 30 V	45 mA @ 4.5 V 40 mA @ 5 V 20 mA @ 12 V 12 mA @ 30 V

<b>Performance Characteristics</b>		
Light Source	Laser	
	<b>PD9330</b>	<b>PD9330-AR</b>
Roll (Tilt) Tolerance	± 35°	± 10°
Pitch Tolerance	± 40°	± 60°
Skew (Yaw) Tolerance	± 65°	± 65°
Print Contrast Minimum	25% minimum reflectance	
Maximum Resolution	3 mils	7.5 mils
Scan Rate	104 (± 12) scans/sec	35 (± 5) scans/sec
Scan Angle	47° max	13.5° ± 0.7°
<b>Depth of Field (Typical)</b>		
Symbology Code 39	PD9330	
5 mils	1.5 - 28 cm / 0.6 - 11"	
7.5 mils	1.5 - 42 cm / 0.6 - 16.5'	
10 mils	2 - 50 cm / 0.8 - 19.7'	
20 mils	2 - 110 cm / 0.8 - 43.3'	
40 mils	2 - 160 cm / 0.8 - 63'	
EAN 13	2.5 - 65 cm / 1 - 25.6"	
Symbology Code 39	PD9330-AR	
7.5 mils	9 - 50 cm / 3.5 - 19.7"	
10 mils	14 - 85 cm / 5.5 - 33.5"	
15 mils	15 - 155 cm / 5.9 - 61"	
20 mils	15 - 220 cm / 5.9 - 86.6"	
40 mils	20 - 340 cm / 7.9 - 133.9"	
55 mils	25 - 420 cm / 9.8 - 165.4"	
Reflective Label Code 39		
70 mils	Up to 9 m / 29 ft	
100 mils	Up to 11.5 m / 37 ft	

Note: the reading performances may change with different symbologies.

<b>Decode Capability</b>			
<b>PD9330</b> GS1 Databar linear codes, UPC/EAN, UPC/EAN P2/P5 Addons, UPC/EAN Coupons, ISBN, Code128, EAN128, Code39, Code39 Full ASCII, Code39 CIP, Code 32, Codabar, Interleaved 2 of 5, IATA, Industrial 2 of 5, Standard 2 of 5, Code11, MSI, Plessey, Code 93, Follet 2/5, Code 4, Code 5, Datalogic 2 of 5, Codablock F			
<b>PD9330-AR</b> GS1 Databar linear codes, UPC/EAN, UPC/EAN P2/P5 Addons, UPC/EAN Coupons, ISBN, Code128, EAN128, Code39, Code39 Full ASCII, Code 32, Codabar, Interleaved 2 of 5, Standard 2 of 5, MSI, Code 93			
Interfaces Supported	RS-232, Keyboard Wedge, and USB. See page 6 for a listing of available interface options.		
<b>User Environment</b>			
Operating Temperature	-4° to 122° F (-20° to +50° C)		
Storage Temperature	-40° to 158° F (-40° to 70° C)		
Humidity	0 to 95% non-condensing		
Drop Specifications	Scanner withstands >50 times 6.5' (2 m) drops to concrete		
Ambient Light Immunity	<table border="1"> <tr> <td>PD9330 100,000 Lux</td> <td>PD9330-AR 43,000 Lux</td> </tr> </table>	PD9330 100,000 Lux	PD9330-AR 43,000 Lux
PD9330 100,000 Lux	PD9330-AR 43,000 Lux		
Contaminants: Spray/rain, Dust/particulates	IP65		
ESD Level	20 KV		
<b>Regulatory</b>			
See the Regulatory Addendum for details.			



## 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.

Indicator	Description	LED	Beeper
Power-up Beep	The reader is in the process of powering-up.	N/A	Reader beeps four times at highest frequency and volume upon power-up.
Good Read Beep	A label has been successfully scanned by the reader.	LED behavior for this indication is configurable via the feature 'Good Read: When to Indicate' (see the PRG for information.)	The reader will beep once at current frequency, volume, mono/bi-tonal setting and duration upon a successful label scan.
ROM Failure	There is an error in the reader's software/programming	Flashes	Reader sounds one error beep at highest volume.
Limited Scanning Label Read	Indicates that a host connection is not established.	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Active Mode	The reader is active and ready to scan.	The LED is lit steadily <sup>a</sup>	N/A
Reader Disabled	The reader has been disabled by the host.	The LED blinks continuously	N/A

Indicator	Description	LED	Beeper
Green Spot <sup>a</sup> flashes momentarily	Upon successful read of a label, the software shall turn the green spot on for the time specified by the configured value.	N/A	N/A

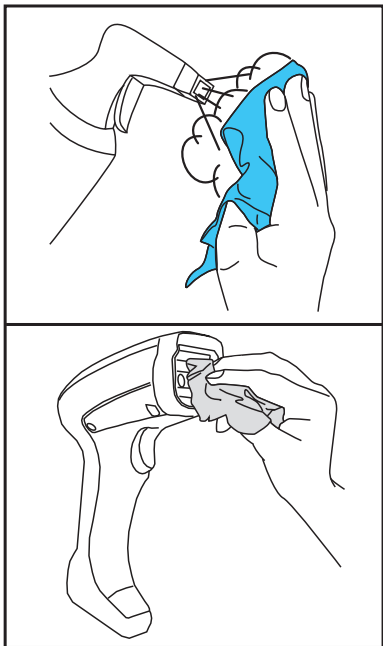
<sup>a</sup>Except when in sleep mode or when a Good Read LED Duration other than 00 is selected

**Programming Mode** - The following indications ONLY occur when the reader is in Programming Mode.

INDICATION	DESCRIPTION	LED	BEEPER
Label Programming Mode Entry	A valid programming label has been scanned.	LED blinks continuously	Reader sounds four low frequency beeps.
Label Programming Mode Rejection of Label	A label has been rejected.	N/A	Reader sounds three times at lowest frequency and current volume.
Label Programming Mode Acceptance of Partial Label	In cases where multiple labels must be scanned to program one feature, this indication acknowledges each portion as it is successfully scanned.	N/A	Reader sounds one short beep at highest frequency and current volume.
Label Programming Mode Acceptance of Programming	Configuration option(s) have been successfully programmed via labels and the reader has exited Programming Mode.	N/A	Reader sounds one high frequency beep and 4 low frequency beeps followed by reset beeps.
Label Programming Mode Cancel Item Entry	Cancel label has been scanned.	N/A	Reader sounds two times at low frequency and current volume.

## Cleaning

Exterior surfaces and scan windows exposed to spills, smudges or debris require periodic cleaning to ensure best performance during scanning.



Use a soft, dry cloth to clean the product. If the product is very soiled, clean it with a soft cloth moistened with a diluted non-aggressive cleaning solution or diluted ethyl alcohol.



**CAUTION**

**Do not use abrasive or aggressive cleansing agents or abrasive pads to clean scan windows or plastics.**

**Do not spray or pour liquids directly onto the unit.**

# Datalogic ADC Limited Factory Warranty

## Warranty Coverage

Datalogic warrants to Customer that Datalogic's products will be free from defects in materials and workmanship for a period of one year from product shipment. Datalogic ("Datalogic") hardware products are warranted against defects in material and workmanship under normal and proper use. The liability of Datalogic under this warranty is limited to furnishing the labor and parts necessary to remedy any defect covered by this warranty and restore the product to its normal operating condition. Repair or replacement of product during the warranty does not extend the original warranty term. 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.

If Datalogic determines that a product has defects in material or workmanship, Datalogic shall, at its sole option repair or replace the product without additional charge for parts and labor, or credit or refund the defective products duly returned to Datalogic. To perform repairs, Datalogic may use new or reconditioned parts, components, subassemblies or products that have been tested as meeting applicable specifications for equivalent new material and products. Customer will allow Datalogic to scrap all parts removed from the repaired product. The warranty period shall extend from the date of shipment from Datalogic for the duration published by Datalogic for the product at the time of purchase (Warranty period). Datalogic warrants repaired hardware devices against defects in workmanship and materials on the repaired assembly for a 90 day period starting from the date of shipment of the repaired product from Datalogic or until the expiration of the original warranty period, whichever is longer. Datalogic does not guarantee, and it is not responsible for, the maintenance of, damage to, or loss of configurations, data, and applications on the repaired units and at its sole discretion can return the units in the "factory default" configuration or with any software or firmware update available at the time of the repair (other than the firmware or software installed during the manufacture of the product). Customer accepts responsibility to maintain a back up copy of its software and data.

## Warranty Claims Process

In order to obtain service under the Factory Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the applicable Warranty period and obtain from Datalogic a return authorization number (RMA) for return of the product to a designated Datalogic service center. If Datalogic determines Customer's claim is valid, Datalogic will repair or replace product without additional charge for parts and labor. Customer shall be responsible for packaging and shipping the product to the designated Datalogic service center, with shipping charges prepaid. Datalogic shall pay for the return of the product to Customer if the shipment is to a location within the country in which the Da-

talogic service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations. Failure to follow the applicable RMA policy, may result in a processing fee. Customer shall be responsible for return shipment expenses for products which Datalogic, at its sole discretion, determines are not defective or eligible for warranty repair.

### **Warranty Exclusions**

The Datalogic Factory Warranty shall not apply to:

- (i) any product which has been damaged, modified, altered, repaired or upgraded by other than Datalogic service personnel or its authorized representatives;
- (ii) any claimed defect, failure or damage which Datalogic determines was caused by faulty operations, improper use, abuse, misuse, wear and tear, negligence, improper storage or use of parts or accessories not approved or supplied by Datalogic;
- (iii) any claimed defect or damage caused by the use of product with any other instrument, equipment or apparatus;
- (iv) any claimed defect or damage caused by the failure to provide proper maintenance, including but not limited to cleaning the upper window in accordance with product manual;
- (v) 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;
- (vi) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.;
- (vii) the replacement of upper window/cartridge due to scratching, stains or other degradation and/or
- (viii) any consumable or equivalent (e.g., cables, power supply, batteries, keypads, touch screen, triggers etc.).

### **No Assignment**

Customer may not assign or otherwise transfer its rights or obligations under this warranty except to a purchaser or transferee of product. No attempted assignment or transfer in violation of this provision shall be valid or binding upon Datalogic.

DATALOGIC'S LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY CUSTOMER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THIS WARRANTY STATEMENT IS THE CUSTOMER'S

SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. UNDER NO CIRCUMSTANCES WILL DATALOGIC BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY LOST PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL IN-DIRECT, SPECIAL OR CONTINGENT DAMAGES REGARDLESS OF WHETHER DATALOGIC HAD ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

### Risk of Loss

Customer shall bear risk of loss or damage for product in transit to Datalogic. Datalogic shall assume risk of loss or damage for product in Datalogic's possession. In the absence of specific written instructions for the return of product to Customer, Datalogic will select the carrier, but Datalogic shall not thereby assume any liability in connection with the return shipment.

## Ergonomic Recommendations



**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.

## Services and Support

Datalogic provides several services as well as technical support through its website. Log on to [www.datalogic.com](http://www.datalogic.com) and click on the links indicated for further information.

### Products

Search through the links to arrive at your product page where you can download specific **Manuals** and **Software & Utilities**, including:

- **Datalogic Aladdin™**, a multi-platform utility program that allows device configuration using a PC. It provides RS-232 interface configuration as well as configuration bar code printing.

### Service & Support

- **Technical Support** - Product documentation and programming guides and Technical Support Department in the world
- **Service Programs** - Warranty Extensions and Maintenance Agreements
- **Repair Services** - Flat Rate Repairs and Return Material Authorization (RMA) Repairs
- **Downloads** – Manuals & Documentation, Data Sheets, Product Catalogues, etc.

### Contact Us

- Information Request Form and Sales & Service Network



# NOTES

# NOTES

# NOTES



[www.datalogic.com](http://www.datalogic.com)

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(Rev A)

September 2016