



QuickScan™ QD2131

General Purpose Corded
Handheld Linear Imager
Bar Code Reader



Quick Reference Guide

Datalogic USA, Inc.

959 Terry Street

Eugene, OR 97402

USA

Telephone: (541) 683-5700

Fax: (541) 345-7140

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**See the Regulatory Addendum
included with your product for
additional regulatory, safety and
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The seat of the arbitration shall be Singapore.

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

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QuickScan™ QD2131

Description

With rich feature sets and extensive options, the QuickScan™ product series from Datalogic represents the premium level of data collection equipment for general purpose applications.

Omni-Directional Operating	To read a symbol simply aim the reader and pull the trigger. The QuickScan™ QD2131 reader is a versatile linear imager, featuring a wide scanning angle with an extended scanning line which is perfect for reading long and truncated bar codes. Datalogic's exclusive patented 'Green Spot' for good-read feedback helps to improve productivity in noisy environments or in situations where silence is required.
Decoding	Reliably decodes all standard 1D (linear) bar codes, including GS1 DataBar™ linear codes. The data stream — acquired from decoding a symbol — is rapidly sent to the host. The reader is immediately available to read another symbol.

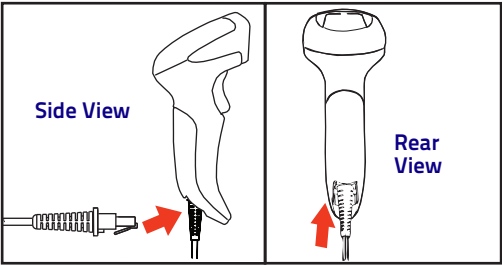
Setting Up the Reader

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 (see "Connect/Disconnect Cable to Reader" on page 2 and "Connect Host Interface" on page 3).
2. Configure the Interface (see "Configuring the Interface" on page 6).
3. Configure the Reader starting on "Programming" on page 5 (optional, depends on settings needed).

Connect/Disconnect Cable to Reader

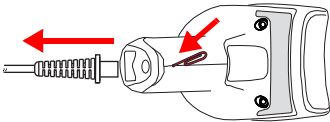
Figure 1. Connecting to the Reader



Host Connection — The QuickScan imager plugs directly into the host device as shown in Figure 3. The power can also be supplied through an external power supply via the Interface Cable supplied with a power jack.

To disconnect, insert a paper clip into the hole in the front of the scanner, as shown:

Figure 2. Disconnecting the cable



Connect Host Interface

Figure 3. Connecting to the Host

USB



Keyboard Wedge



RS-232

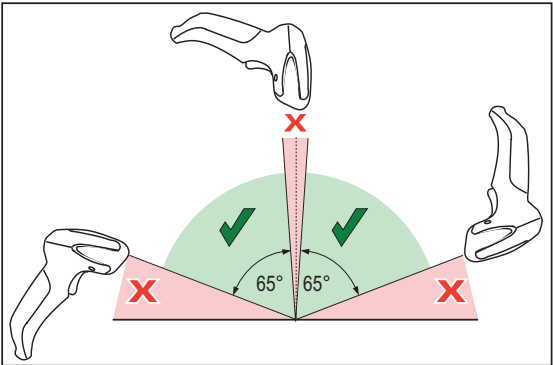
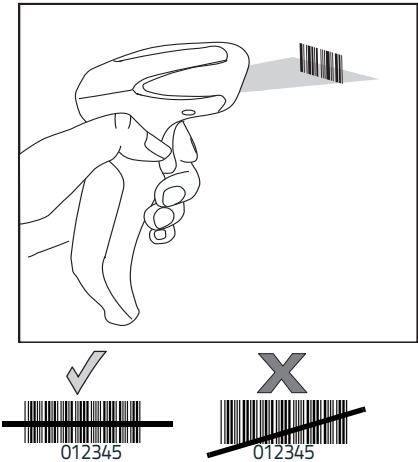


Using the Quickscan™ QD2131 Reader

Bar Code Reading

Point the reader at the target and pull the trigger to enable the illuminator (red beam) to decode the bar code label. The illuminator will remain on until the trigger is released, or a label is read, or the "maximum scan on time" is reached. When scanning a bar code label, you can adjust the distance or angle to the label to help facilitate reading.

Aim and Scan



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 QuickScan QD2131 PRG. Check the corresponding features section for your interface, and also the Data Editing and Symbolologies 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 6](#), 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.

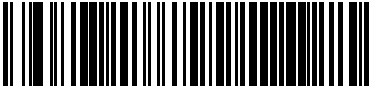
Resetting Product Defaults

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

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

The reader model will support one of the following sets of host interfaces:

General Purpose/ Retail Point of Sale Model — RS-232, USB OEM, Keyboard.

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 QuickScan QD2131 PRG.

Configuring the Interface

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



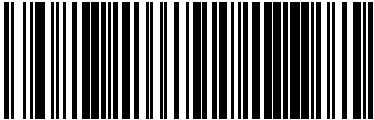
NOTE

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 scan 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.

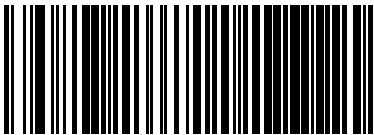
RS-232

RS-232 standard interface



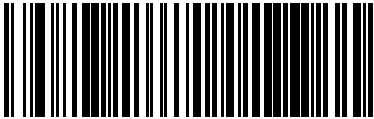
Select RS232-STD

RS-232 Wincor-Nixdorf



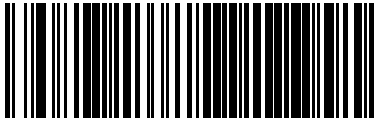
Select RS232-WN

RS-232 for use with OPOS/UPOS/JavaPOS



Select RS-232 OPOS

USB COM to simulate RS-232 standard interface

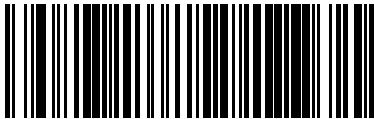


Select USB-COM-STD^a

USB-OEM

USB-OEM

(can be used for OPOS/UPOS/JavaPOS)

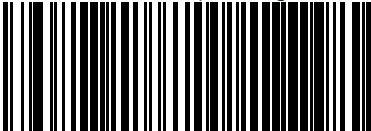
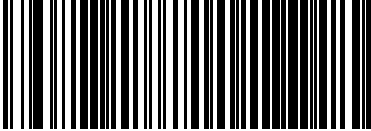
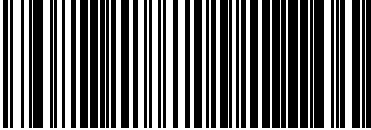
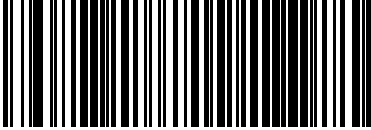


Select USB-OEM

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

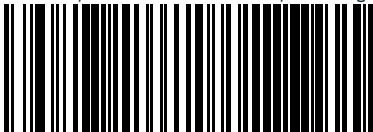
Keyboard Interface

Use the programming bar codes to select options for USB Keyboard and Wedge Interfaces.

KEYBOARD
<div>AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/ Standard Key Encoding</div> <div></div> <div>Select KBD-AT</div>
<div>Keyboard Wedge for IBM AT PS2 with standard key encoding but without external keyboard</div> <div></div> <div>Select KBD-AT-NK</div>
<div>AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Alternate Key</div> <div></div> <div>Select KBD-AT-ALT</div>
<div>Keyboard Wedge for IBM AT PS2 with alternate key encoding but without external keyboard</div> <div></div> <div>Select KBD-AT-ALT-NK</div>

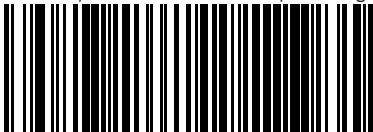
KEYBOARD (continued)

USB Keyboard with alternate key encoding



Select USB Alternate Keyboard

USB Keyboard with standard key encoding



Select USB Keyboard

Scancode Tables

Reference the QuickScan QD2131 PRG for information about control character emulation for keyboard interfaces.

Country Mode

This feature specifies the country/language supported by the keyboard. Only these interfaces support ALL Country Modes:

- USB Keyboard (without alternate key encoding)
- AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Std Key Encoding
- Keyboard Wedge for IBM AT PS2 with standard key encoding but without external keyboard
- AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 without Alternate Key
- Keyboard Wedge for IBM AT PS2 without alternate key encoding but without external keyboard

All other interfaces support ONLY the following Country Modes: U.S., Belgium, Britain, France, Germany, Italy, Spain, Sweden.

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

COUNTRY MODE (continued)
<div><p>Country Mode = Croatia*</p></div>
<div><p>Country Mode = Czech Republic*</p></div>
<div><p>Country Mode = Denmark*</p></div>
<div><p>Country Mode = France</p></div>
<div><p>Country Mode = French Canadian</p></div>
<div><p>Country Mode = Germany</p></div>
<div><p>Country Mode = Hungarian</p></div>

*Supports only the interfaces listed in the Country Mode feature description

COUNTRY MODE (continued)
<div><p>Country Mode = Italy</p></div>
<div><p>Country Mode = Japanese 106-key*</p></div>
<div><p>Country Mode = Lithuanian</p></div>
<div><p>Country Mode = Norway*</p></div>
<div><p>Country Mode = Poland*</p></div>
<div><p>Country Mode = Portugal*</p></div>

*Supports only the interfaces listed in the Country Mode feature description

COUNTRY MODE (continued)
<div><p>Country Mode = Romania*</p></div>
<div><p>Country Mode = Slovakia*</p></div>
<div><p>Country Mode = Spain</p></div>
<div><p>Country Mode = Sweden</p></div>
<div><p>Country Mode = Switzerland*</p></div>

*Supports only the interfaces listed in the Country Mode feature description

Caps Lock State


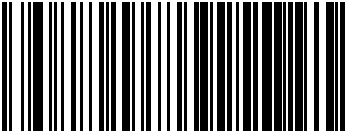
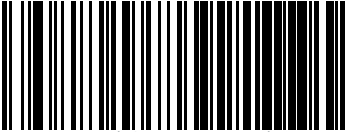
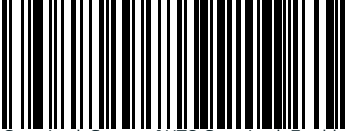
This option specifies the format in which the reader sends character data. This is used by the keyboard wedge and USB keyboard interfaces.

00 = CAPS LOCK Off, send character data in normal format.

01 = CAPS LOCK ON, send character data in reverse case.

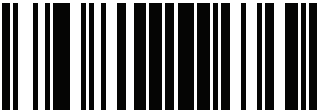
02 = Auto CAPS LOCK. This applies to USB keyboard, and Wedge E (AT) interfaces. For other interfaces this setting defaults to CAPS LOCK Off functionality.

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CAPS LOCK STATE
 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.

NUMLOCK
 ENTER/EXIT PROGRAMMING MODE
 Numlock = Numlock key unchanged
 Numlock = Numlock key toggled

Reading Parameters

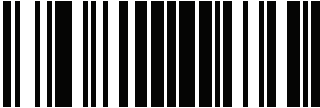
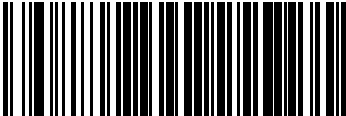
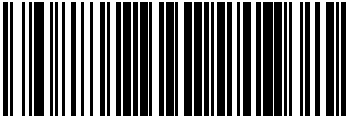
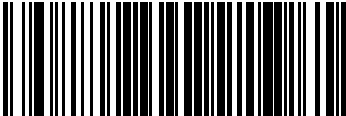

Move the reader toward the target and center the aiming pattern and illumination system to capture and decode the image. See ["Using the Quickscan™ QD2131 Reader" on page 4](#) for more information.

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.

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.

GOOD READ GREEN SPOT DURATION
 ENTER/EXIT PROGRAMMING MODE
 Green Spot Duration = Disable (Green Spot is Off)
 ♦ Green Spot Duration = Short (300 msec)
 Green Spot Duration = Medium (500 msec)
 Green Spot Duration = Long (800 msec)

Operating Modes

Scan Mode

The imager can operate in one of several scanning modes.

Trigger Single — When the trigger is pulled, scanning is activated until one of the following occurs:

- a programmable duration¹ has elapsed
- a label has been read
- the trigger is released
- "maximum scan on time" is reached

This mode is associated with typical handheld reader operation.

Trigger Hold Multiple — When the trigger is pulled, scanning starts and the product scans until the trigger is released, a programmable duration¹ has elapsed or the "maximum scan on time" is reached to make scanner off. Reading a label does not disable scanning. "Double read"¹ time-out prevents undesired multiple reads while in this mode.

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 "maximum scan on time" is reached or a programmable duration¹ has elapsed. Reading a label does not disable scanning. "Double read"¹ time-out prevents undesired multiple reads.

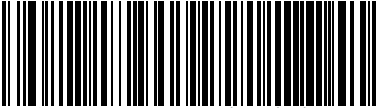





Flashing — The reader flashes¹ on and off regardless of the trigger status. Code reading takes place only during the flash on time. "Double read"¹ time-out prevents undesired multiple reads.

Always On — The illuminator is always ON regardless of the trigger status and the reader is always ready for code reading. "Double read"¹ time-out prevents undesired multiple reads.

Object Detection — In this mode the scanner looks for scene changes within its field-of-view to initiate read attempts. The Green Spot can be configured to be on, to help the user to find the position of the reading line. When an object's presence is detected in the scene the illuminator turns on and turns off the green spot. Scanning continues until the Object Gone Timeout expires after last read. "Double read" timeout¹ prevents undesired multiple reads while in this mode.

Trigger Object Sense — It is similar to Object Detection. A trigger pull is required to activate the decoder.

1. See the Product Reference Guide (PRG) for more information

SCAN MODE
<div></div> <div>◆ Scan Mode = Trigger Single</div>
<div></div> <div>Scan Mode = Trigger Hold Multiple</div>
<div></div> <div>Scan Mode = Trigger Pulse Multiple</div>
<div></div> <div>Scan Mode = Flashing</div>
<div></div> <div>Scan Mode = Always On</div>
<div></div> <div>Scan Mode = Object Detection</div>
<div></div> <div>Scan Mode = Trigger Object Sense</div>

Technical Specifications

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

Item	Description
Physical Characteristics	
Color	Black & white
Dimensions	Height 6.4"/163 mm Length 3.6"/91 mm Width 1.6"/41 mm
Weight (without cable)	Approximately 5.3 ounces/150 g
Electrical Characteristics	
Voltage & Current ^a	Input Voltage: 4.5 - 14.0VDC Operating (typical): 140mA Operating (max): 380mA Idle/standby (typical): 50mA
Performance Characteristics	
Light Source	LEDs
Roll (Tilt) Tolerance ^b	Up to $\pm 45^{\circ}$
Pitch Tolerance ^b	$\pm 65^{\circ}$
Skew (Yaw) Tolerance ^b	$\pm 70^{\circ}$
Field of View	$56 \pm 2^{\circ}$
Print Contrast Minimum	25% minimum reflectance

- a. Typical input current measured @5V under factory default configuration.
- b. Based on ISO 15423 specifications.

Depth of Field (Guaranteed) ^a	
Symbology	
Code 39	5mil: 0.8" - 7" (2 - 18cm) 7.5mils: 0.8"- 12" (2 - 30cm) 10mil: 0.8" - 17" (2 - 44cm) 20mil: up to 29.5" (75cm)
EAN	13mil: 0.8" - 23" (2 - 58cm)
Minimum Element Width	Max Resolution = 4 mil

a. 13 mils DOF based on EAN. All other 1D codes are Code 39. All labels grade A, typical environmental light, 20°C, label inclination 10°

Decode Capability	
1D Bar Codes UPC/EAN/JAN (A, E, 13, 8); UPC/EAN/JAN (including P2 /P5); UPC/EAN/JAN (including; ISBN / Bookland & ISSN); UPC/EAN Coupons; Code 39 (including full ASCII); Code 39 Trioptic; Code39 CIP (French Pharmaceutical); LOGMARS (Code 39 w/ standard check digit enabled); Code 32 (Italian Pharmacode 39); Code 128; Code 128 ISBT; Interleaved 2 of 5; Standard 2 of 5; Interleaved 2 of 5 CIP (HR); Industrial 2 of 5; IATA 2 of 5 Air cargo code; Datalogic 2 of 5, Code 4, Code 5, Follet 2 of 5, BC412, Code 11; Codabar; Codabar (NW7); ABC Codabar; EAN 128; Code 93 ; MSI; PZN; Plessey; Anker Plessey; GS1 DataBar Omnidirectional; GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Truncated; DATABAR Expanded Coupon.	
Interfaces Supported	RS-232, Keyboard Wedge, USB Com Std., USB Keyboard, USB OEM
User Environment	
Operating Temperature	0° to 50° C (32° to 122° F)
Storage Temperature	-40° to 70 °C (-40° to 158° F)

Humidity	Operating: 0% to 95% relative humidity, non-condensing
Drop Specifications	Scanner withstands 18 drops from 1.5 meters (5.0 feet) to concrete
Ambient Light Immunity	Up to 120,000 Lux
Contaminants Spray/rain Dust/ particulates	IEC 529-IP42

LED and Beeper Indications

The reader’s beeper sounds and its top multi-colour 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.		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 ^a	N/A

Indicator	Description	LED	Beeper
Reader Disabled	The reader has been disabled by the host.	The LED blinks continuously	N/A
Green Spot ^a 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

^aExcept 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 Pro-gramming Mode Accep-tance of Pro-gramming	Configuration option(s) have been successfully pro-grammed via labels and the reader has exited Program-ming Mode.	N/A	Reader sounds one high fre-quency beep and 4 low fre-quency beeps followed by reset beeps.
Label Pro-gramming Mode Cancel Item Entry	Cancel label has been scanned.	N/A	Reader sounds two times at low frequency and current volume.

Error Codes

Upon startup, if the reader sounds a long tone, this means the reader has not passed its automatic Selftest and has entered FRU (Field Replaceable Unit) isolation mode. If the reader is reset, the sequence will be repeated. Press and release the trigger to hear the FRU indication code.

The following table describes the LED flashes/beep codes associated with an error found.

Number of LED Flashes/ Beeps	Error	Corrective Action
1	Configuration	Contact Helpdesk for assistance
2	Interface PCB	
6	Digital PCB	
11	Imager	

Datalogic 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 five years 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 Datalogic 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



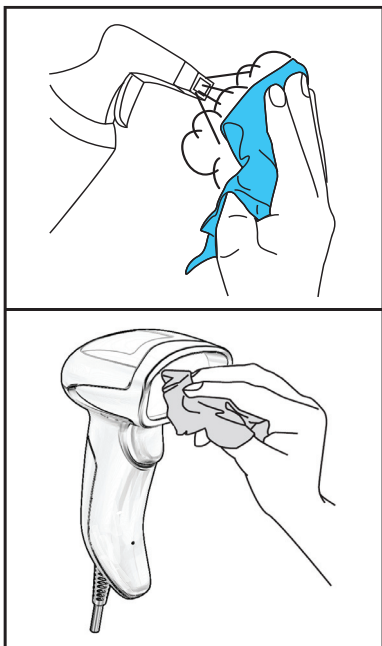
CAUTION

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.

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.

Support Through the Website

Datalogic provides several services as well as technical support through its website.

Log on to www.datalogic.com and click on the **SUPPORT > General Duty Handheld Scanners** category link. From this page you can select your product model from the drop-down list which gives you access to:

Downloads including Data Sheets, Manuals, Software & Utilities, and Drawings;

Repair Program for On-Line Return Material Authorizations (RMAs) plus Repair Center contact information;

Service Program containing details about Maintenance Agreements;

Technical Support through email or phone.

NOTES



www.datalogic.com

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Datalogic USA, Inc.

959 Terry Street | Eugene, OR 97402 | USA
Telephone: (541) 683-5700 | Fax: (541) 345-7140



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