

 **DATALOGIC**

**QuickScan™ L**  
QD2300 Barcode Scanner



**Quick Reference Guide**

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



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# NOTES

# **DATALOGIC USA INC.**

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- 1.5 "Software" means any software or computer programs of Datalogic or its third party licensors in machine readable form which is embedded in the Datalogic Product, whether obtained directly or indirectly from Datalogic, including any replacement, update, upgrade, enhancement or modification.

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- 11.2 Notice. All notices required or authorized under this Agreement shall be given in writing, and shall be effective when received, with evidence of receipt. Notices to Datalogic shall be sent to the attention of Datalogic USA Inc., Legal & IP Department, 959 Terry Street, Eugene, OR 97402, USA or such other address as may be specified by Datalogic in writing.
- 11.3 Waiver. A party's failure to enforce any of the terms and conditions of this Agreement shall not prevent the party's later enforcement of such terms and conditions.
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All rights, duties, and obligations are subject to the courts of the country in which End User obtained the license. For licenses granted by Licensee who operates in the countries specified below, the following terms applies.

For Americas.

This Agreement is governed by the laws of the State of Oregon. This Agreement and the rights of the parties hereunder shall be governed by and construed in accordance with the laws of the State of Oregon U.S.A, without regard to the rules governing conflicts of law. The state or federal courts of the State of Oregon located in either Multnomah or Lane counties shall have

exclusive jurisdiction over all matters regarding this Agreement, except that Datalogic shall have the right, at its absolute discretion, to initiate proceedings in the courts of any other state, country, or territory in which End User resides, or in which any of End User's assets are located. In 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.

For Europe, Middle East and Africa

This Agreement is governed by the laws of Italy. This Agreement and the rights of the parties hereunder shall be governed by and construed in accordance with the laws of Italy, without regard to the rules governing conflicts of law. Italian Court of Bologna shall have exclusive jurisdiction over all matters regarding this Agreement, except that Datalogic shall have the right, at its absolute discretion, to initiate proceedings in the courts of any other state, country, or territory in which End User resides, or in which any of End User's assets are located. In 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.

For Asia- Pacific Countries

This Agreement is governed by the laws of the State of Hong Kong. This Agreement and the rights of the parties hereunder shall be governed by and construed in accordance with the laws of the State of Hong Kong without regard to the rules governing conflicts of law. The Court of Hong Kong shall have exclusive jurisdiction over all matters regarding this Agreement, except that Datalogic shall have the right, at its absolute discretion, to initiate proceedings in the courts of any other state, country, or territory in which End User resides, or in which any of End User's assets are located. In 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.

11.5 Attorneys' Fees. In 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.

**- END -**

## **Software Product Policy**

Datalogic reserves the right to ship its products with the latest version of software/firmware available. This provides our customers with the very latest in Datalogic software technology.

The only exception to this policy is when the buyer has a signed contract with Datalogic that clearly defines the terms and conditions for making software/firmware changes in products shipped to the buyer.

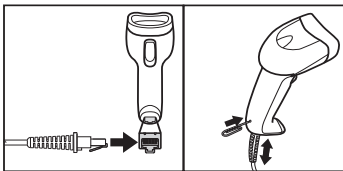
## **Customers Under Software Support**

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



1

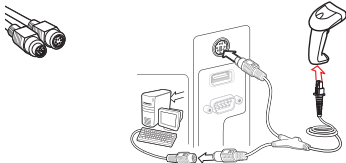
## Connect/Disconnect Cable



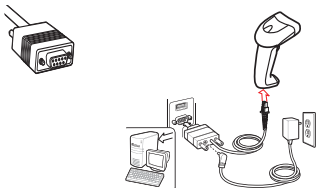
2

## Connect Host Interface

### Keyboard Wedge Interface



### RS-232 Interface

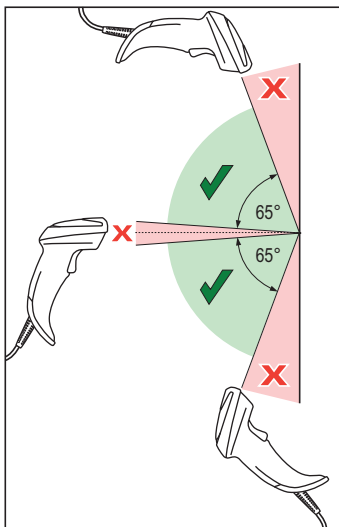
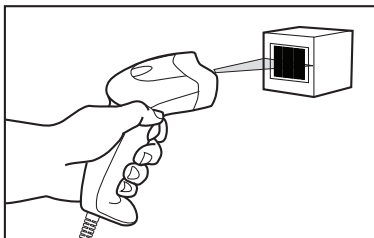


### USB Interface

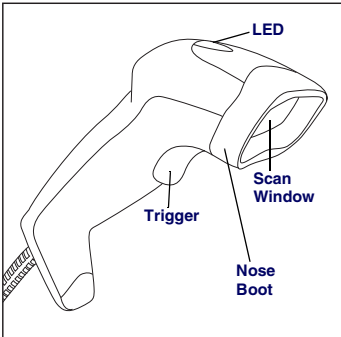


3

## Aim and Scan



## Parts of the Scanner



## Scanning Modes

The Scanner can operate in two modes:

**Trigger Single Mode** — Trigger button must be pressed to emit the laser in order to scan a barcode.

or

**Stand Mode** — Scanner laser is in constant on state and no trigger button press is required to scan a barcode.

To toggle between modes, scan the 'Toggle Scan Mode' barcode below.



Depending upon which mode the scanner currently is in, scan the 'Toggle Scan Mode' to switch from *Trigger Single* to *Stand*, or from *Stand* to *Trigger Single Mode*.

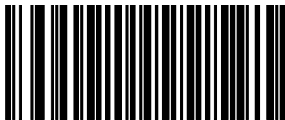
While in the *Stand* mode of operation, if the scanner has not been used for several minutes it will shift to low power operation, signalled by a narrowing of the scanning beam. When in low power mode, the scanner will respond to a barcode and come back to normal *Stand Mode* operation upon seeing/reading the label.

If the scanner has been idle for an extended configurable period<sup>1</sup>, it will timeout, then enter sleep mode with the scanning beam turned off. To wake the scanner from sleep mode, press the trigger button.

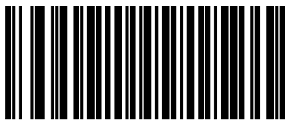
## Stand Mode Timeout Period

The Timeout Period for the transition from low power to sleep mode can be set to one of the following durations:

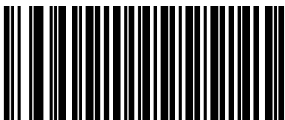
- 1 Hour
- 5 Hours (default)
- Infinite Timeout — With this setting, there is no timeout, thus the scanner will never go into sleep mode or beam shut-off but will remain in low power mode until a label is read.



Stand Mode Timeout Period = 1 Hour



Stand Mode Timeout Period = 5 Hours (Default)



Stand Mode Timeout Period = Infinite Timeout

1. See the following topic [Stand Mode Timeout Period](#).

# Troubleshooting

Problem	Possible Cause	Possible Solutions
Nothing happens when the scan button is pulled.	No power to the scanner.	Check system power. Ensure power supply is connected.
	Interface or power cables are loose.	Ensure all cable connections are secure.
Laser comes on, but barcode does not decode.	Scanner not programmed for correct barcode type.	Ensure scanner is programmed to read the type of barcode scanned. Refer to the Product Reference Guide (PRG) for more information.
	Barcode label is unreadable.	Check the label to ensure it is not defaced. Try scanning another barcode type.
	Distance between scanner and barcode is incorrect.	Move scanner closer to or further from the barcode.
Barcode reading ability has degraded.	Scan Window has become scratched or contaminated with dust.	Replace window as instructed in this guide.
Barcode is decoded but not transmitted to the host.	Scanner not programmed for the correct host type.	Scan the appropriate host type barcode. Refer to the Product Reference Guide (PRG) for more information.



**NOTE**

**For detailed troubleshooting, refer to the Product Reference Guide (PRG).**

## Beeper Definitions

The scanner issues different beep sequences and patterns to indicate status. The table below defines beep sequences that occur during both normal scanning and while programming the scanner.

Beeper Sequence	Indication
<b>Standard Use</b>	
Low/medium/high beep	Power up.
Short high beep	A barcode label was decoded (if decode beeper is enabled).
4 long low beeps	A transmission error was detected in a scanned barcode. The data is ignored. This occurs if a unit is not properly configured. Check option setting.
5 low beeps	Conversion or format error.
Low/high/low beep	ADF transmit error.
High/high/high/low beep	RS-232 receive error.
<b>Parameter Menu Scanning</b>	
Short high beep	Correct entry scanned or correct menu sequence performed.
Low/high beep	Input error, incorrect barcode or <b>Cancel</b> scanned, wrong entry, incorrect barcode programming sequence; remain in program mode.
High/low beep	Keyboard parameter selected. Enter value using barcode keypad.
High/low/high/low beep	Successful program exit with change in the parameter setting.
Low/high/low/high beep	Out of host parameter storage space. Scan <a href="#">SET DEFAULTS on page 12</a> .

Beeper Sequence	Indication
<b>Code 39 Buffering</b>	
High/low beep	New Code 39 data was entered into the buffer.
3 beeps - long high beep	Code 39 buffer is full.
Low/high/low beep	The Code 39 buffer was erased or there was an attempt to clear or transmit an empty buffer.
Low/high beep	A successful transmission of buffered data.
<b>Host Specific</b>	
<b>USB only</b>	
4 short high beeps	Scanner has not completed initialization. Wait several seconds and scan again.
Scanner gives a power-up beep after scanning a USB Device Type.	Communication with the bus must be established before the scanner can operate at the highest power level.
The power-up beep occurs more than once.	The USB bus may put the scanner in a state where power to the scanner is cycled on and off more than once. This is normal and usually happens when the host PC cold boots.
<b>RS-232 only</b>	
1 short high beep	A <BEL> character is received and Beep on <BEL> is enabled.

---

## LED Definitions

In addition to beeper sequences, the scanner communicates with the user using a two-color LED display. The table below defines LED colors that display during scanning.

LED	Indication
Off	No power is applied to the scanner, or the scanner is on and ready to scan.
Green	A barcode was successfully decoded.
Red	A data transmission error or scanner malfunction occurred.



# Programming Barcodes Descriptions

This guide includes the programming barcodes required to set up the scanner to work with various host interfaces. Some frequently used programming barcodes are also included.

For all programming barcodes, plus detailed information about the scanner, download the latest version of the Product Reference Guide (PRG), Advanced Data Formatting (ADF) Guide and all documentation pertaining to the scanner from the website listed on the back cover of this manual.

The definitions that follow briefly explain the programming barcodes.

## Set Defaults

Scan Set Defaults to set all parameters to their default values.

## Host Interfaces



### NOTE

Cables may vary depending upon system configuration.



## Keyboard Wedge Interface

To use a Keyboard Wedge interface, scan IBM PC COMPATIBLES, then scan the appropriate Country Keyboard Type (country code).



## RS-232 Interface

To use an RS-232 interface, scan an RS-232 host type.



## USB Interface

The scanner attaches directly to a USB host, or a powered USB hub, and is powered by it. No additional power supply is required. When using a USB interface, the scanner auto detects the USB and defaults to the HID keyboard interface. There are additional USB hosts listed in the PRG.

## Carriage Return / Line Feed

If a carriage return/enter is required after each scanned bar code, scan the following bar codes in order:

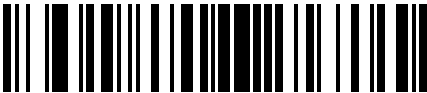
1. SCAN OPTIONS
2. <DATA><SUFFIX>

## Carriage Return / Line Feed

### Set Scan Data Transmission Format



SCAN OPTIONS



<DATA><SUFFIX>



ENTER

## Cancel



CANCEL

# Programming Barcodes



SET DEFAULTS

## Keyboard Wedge Interface



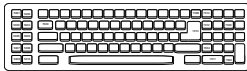
IBM PC/AT and IBM PC  
COMPATIBLES



IBM PS/2 (MODEL 30)

2

## Country Keyboard Types (Country Codes)



NORTH AMERICAN (Default)



FRANÇAIS/FRENCH Windows



FRANÇAIS CANADIAN/  
FRENCH CANADIAN Windows 95/98



FRANÇAIS CANADIAN/  
FRENCH CANADIAN Windows XP/2000



DEUTSCH/GERMAN Windows

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**Country Keyboard Types (Country Codes) — cont.**

ESPAÑOL/SPANISH Windows



ITALIANO/ITALIAN Windows



SVENSKA/SWEDISH Windows



UK ENGLISH Windows



日本語 /JAPANESE Windows

PORTUGUÊS (BRASIL)/  
PORTUGUÊSE-BRAZILIAN Windows

## RS-232 Interface



STANDARD RS-232



ICL RS-232



RS-232 WINCOR-NIXDORF MODE A



RS-232 WINCOR-NIXDORF MODE B



RS-232 FUJITSU



RS-232 OPOS

**NOTE**

For USB OPOS operation, use host type **USB OEM HANDHELD** and an appropriate driver supplied by Datalogic.

There are many more country settings for the USB Keyboard. Please refer to the PRG, downloadable from the website located on the back cover of this manual.

## USB Interface



USB KEYBOARD



USB OEM HANDHELD

## Ergonomic Recommendations



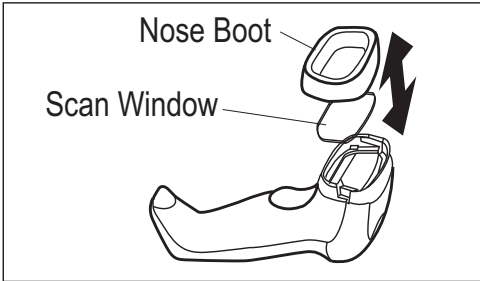
**In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.**

- 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.



## Replacing the Scan Window

If the Scan Window becomes scratched, broken or contaminated with heavy dust, replace it by removing the Nose Boot and installing a new window. Datalogic offers a replacement window as an orderable accessory.



To replace the Scan Window, **first remove power** from the scanner then hold the scanner with the Scan Window facing up. Gently pull off the Nose Boot and tilt the scanner to one side to remove the window.



### CAUTION

**Proceed to the next step immediately. DO NOT leave the interior of the scanner exposed.**

Holding it by its edges, carefully place the clean replacement Scan Window in position and secure it in place by reinstalling the Nose Boot.

# 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 one year from product shipment. 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 INDIRECT, 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.

## Support Through the Website

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 **SUPPORT > GENERAL DUTY HANDHELD SCANNERS** category link.

From this page you can select your product model from the dropdown 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

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

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