



# QuickScan™ QM21X1

General Purpose Handheld  
Linear Imager Bar Code Reader  
with Datalogic's STAR Cordless System™



**Quick Reference Guide**

## **Datalogic USA, Inc.**

959 Terry Street

Eugene, OR 97402

USA

Telephone: (541) 683-5700

Fax: (541) 345-7140

## **©2014-2017 Datalogic S.p.A. and/or its affiliates**

♦ All rights reserved ♦ Without limiting the rights under copyright, no part of this documentation may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means, or for any purpose, without the express written permission of Datalogic S.p.A. and/or its affiliates.

Owners of Datalogic products are hereby granted a non-exclusive, revocable license to reproduce and transmit this documentation for the purchaser's own internal business purposes. Purchaser shall not remove or alter any proprietary notices, including copyright notices, contained in this documentation and shall ensure that all notices appear on any reproductions of the documentation.

Should future revisions of this manual be published, you can acquire printed versions by contacting your Datalogic representative. Electronic versions may either be downloadable from the Datalogic website ([www.datalogic.com](http://www.datalogic.com)) or provided on appropriate media. If you visit our website and would like to make comments or suggestions about this or other Datalogic publications, please let us know via the "Contact Datalogic" page.

### **Disclaimer**

Datalogic has taken reasonable measures to provide information in this manual that is complete and accurate, however, Datalogic reserves the right to change any specification at any time without prior notice.

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries, including the U.S. and the E.U. QuickScan is a trademark of Datalogic S.p.A. and/or its affiliates, registered in many countries, including the U.S. and the E.U. All other brand and product names may be trademarks of their respective owners.

### **Patents**

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.**





# Table of Contents

|   |    |
|---|----|
| Software Product Policy .....             | vi |
| Setting Up the Reader .....               | 1  |
| Locking the Reader to the Base .....      | 2  |
| To Lock the Reader in the Base.....       | 2  |
| Connecting the Base Station .....         | 3  |
| Base Station Connection and Routing ..... | 4  |
| System and Network Layout .....           | 6  |
| Typical Setup with Cradle and Host.....   | 6  |
| Using the BC20XX™ Radio Base .....        | 6  |
| Radio Base LEDs .....                     | 6  |
| Charging the Battery Pack .....           | 7  |
| Replacing the Battery Pack .....          | 8  |
| Using the Quicksan™ QM21X1 .....          | 9  |
| Bar Code Reading .....                    | 9  |
| Linking the Reader .....                  | 10 |
| Link Datalogic RF Devices to Base.....    | 10 |
| Power Off .....                           | 10 |
| Programming .....                         | 10 |
| Using Programming Bar Codes .....         | 11 |
| Configure Other Settings .....            | 11 |
| Resetting Standard Product Defaults ..... | 11 |
| Selecting the Base Interface Type .....   | 12 |
| Interface Selection .....                 | 12 |
| Configuring the Interface .....           | 12 |
| Keyboard Interface .....                  | 14 |
| Scancode Tables.....                      | 16 |
| Country Mode.....                         | 16 |
| Caps Lock State.....                      | 21 |
| Numlock.....                              | 22 |
| Good Read Green Spot Duration .....       | 23 |
| Scan Modes .....                          | 24 |
| Technical Specifications .....            | 26 |
| LED and Beeper Indications .....          | 30 |
| Error Codes .....                         | 32 |
| Base Station Indications .....            | 32 |
| Datalogic Limited Factory Warranty .....  | 33 |
| Warranty Coverage .....                   | 33 |
| Warranty Claims Process.....              | 33 |
| Warranty Exclusions.....                  | 34 |
| No Assignment .....                       | 34 |
| Risk of Loss .....                        | 35 |
| Ergonomic Recommendations .....           | 36 |

---

|                                   |    |
|-----------------------------------|----|
| Cleaning .....                    | 37 |
| Support Through the Website ..... | 38 |

# END USER LICENSE AGREEMENT<sup>1</sup>

**NOTICE TO END USER: BY DOWNLOADING OR INSTALLING THE SOFTWARE, OR BY USING THE DATALOGIC PRODUCT THAT INCLUDES THIS SOFTWARE, THE END USER CONSENTS TO BE BOUND BY THIS AGREEMENT. IF THE END USER DOES NOT AGREE WITH ALL OF THE TERMS OF THIS AGREEMENT, THEN DATALOGIC IS NOT WILLING TO LICENSE THE SOFTWARE AND THE END USER IS NOT ALLOWED TO DOWNLOAD, INSTALL OR USE THE SOFTWARE OR THE DATALOGIC PRODUCT---**

This End User License Agreement ("EULA") is between Datalogic IP Tech S.r.l. having its registered office at Via San Vitalino 13, 40012 Calderara di Reno (Bologna), Italy ("Datalogic"), and you, either an individual or a single entity, ("End User or "You") who has purchased one or more QuickScan QM21X1 ("Datalogic Product") subject to the terms and conditions provided in any relevant purchase or sale contract. This EULA applies to the software contained in the Datalogic Product ("Embedded Software") and to any other software, to the extent applicable, offered as optional application software ("Application Software" that together with "Embedded Software" is herein referred to as "Software").

## 1. Grant of License

- 1.1 Datalogic grants to End User, a personal, non-exclusive, non-transferable, non-sublicensable, revocable, limited license to use the Software, solely on the Datalogic Product in which it is embedded or for which it is intended for use, in machine-readable form only, solely for End User's internal business purposes.
- 1.2 End Users shall not distribute, sublicense, rent, loan, lease, assign, export, re-export, resell, ship or divert or cause to be exported, re-exported, resold, shipped or diverted, directly or indirectly, the Software under this Agreement. End User shall not, and shall not permit others to: (i) modify, translate, decompile, reverse engineer, disassemble, or extract the inner workings of the Software, (ii) copy the functionality of the Datalogic Products; (iii) remove any proprietary notices, marks, labels, or logos from the Datalogic Products; (iv) rent or transfer all or some of the Software to any other party without Datalogic's prior written consent.
- 1.3 Title to the licensed Software shall be and remain with Datalogic or the third party from whom Datalogic has obtained a license right. This Agreement does not grant to End User any intellectual property rights. As used in this Agreement the term "purchase" or its equivalent when applied to the Software shall mean "acquire under license". End User is not entitled to receipt or use of the source code of any licensed Software.
- 1.4 Portions of the Datalogic Product are protected by the relevant and applicable patent and copyright laws, international treaty provisions, and other applicable laws. Therefore, End User must treat the Datalogic Product like any other copyrighted material (e.g., a book or musical recording) except that End User may make one copy of the Software solely for back-up purposes. Unauthorized duplication of the Software constitutes copyright infringement.
- 1.5 Any use of the Software outside of the conditions set forth herein is strictly prohibited and will be deemed a breach of this Agreement resulting in immediate termination of this Agreement. In the event of a breach of this Agreement, Datalogic will be entitled to all available remedies at law or in equity (including but not limiting to immediate termination of the license without notice, immediate injunctive relief and repossession of all Datalogic Products).
- 1.6 Without prejudice of the foregoing, End User grants to Datalogic and its independent accountants or consultants the right to examine End User's books, records and accounts during End User's normal business hours to verify compliance with this Agreement, Datalogic shall be entitled to immediately terminate the Agreement, request End User to promptly pay all (additional) license fees due and any further damages, if any.

## 2. License Fee

License fees shall be due by End User to Datalogic according to the terms provided for in the relevant contract for the purchase of the Datalogic Product.

## 3. Termination

Without prejudice to any other rights or remedies Datalogic may have, Datalogic may terminate this Agreement if End User fails to comply with the terms and conditions of this Agreement. Datalogic may terminate this Agreement by offering you a superseding Agreement for the Software or any replacement or modified version of or upgrade to the Software and conditioning your continued use of the Software or such replacement, modified or upgraded version on your acceptance of such superseding Agreement. In addition, either party may terminate this Agreement at any time. Subject to the foregoing, termination shall be effective upon notice to the

---

other party. In the event that this Agreement terminates for any reason, End User's license to use the Software will immediately terminate, and End User must immediately stop using the Software, destroy all copies of the Software and all of its component parts, and, upon request, provide an affidavit certifying your compliance with the foregoing. The provisions of Sub-sections 1.2, 1.3, 1.4, 1.5, 4, 5, 6, 8, and 11 shall survive termination of this Agreement.

#### **4. Limited Warranty**

Datalogic warrants that, under normal use and operation, the Software will conform substantially to the applicable Datalogic Product documentation for the period specified in the same, provided that the Software is used with the Datalogic Product. Datalogic's entire liability and End User's sole and exclusive remedy for any breach of the foregoing limited warranty will be, at Datalogic's option, the provision of a downloadable patch or replacement software.

Datalogic does not warrant (i) that Software will meet End User's requirements; (ii) that Software will be uninterrupted or defect error free; (iii) any non conformity derived from unauthorized use, and/or improper installation or repair not in compliance with Datalogic Product documentation. End User agrees that the existence of such non conformities or errors and Datalogic's inability to remedy such errors shall not constitute a breach of this Agreement.

EXCEPT AS PROVIDED IN THIS AGREEMENT, THE DATALOGIC PRODUCT IS PROVIDED "AS IS" AND DATALOGIC MAKES NO WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, WRITTEN OR ORAL, WITH RESPECT TO THE DATALOGIC PRODUCT OR SOFTWARE, AND SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

#### **5. Limitation of Liability**

EXCEPT AS PROVIDED IN THIS AGREEMENT, NEITHER DATALOGIC NOR ITS LICENSORS SHALL BE LIABLE FOR ANY CLAIMS AGAINST END USER BY ANY OTHER PARTY. IN NO EVENT SHALL DATALOGIC'S LIABILITY FOR DAMAGES, IF ANY, WHETHER BASED UPON CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, STRICT LIABILITY, WARRANTY, OR ANY OTHER BASIS, EXCEED THE PRICE OR FEE PAID BY END USER FOR THE DATALOGIC PRODUCT. UNDER NO CIRCUMSTANCES SHALL DATALOGIC OR ITS LICENSORS BE LIABLE TO END USER OR ANY THIRD PARTY FOR LOST PROFITS, LOST DATA, INTERRUPTION OF BUSINESS OR SERVICE, OR FOR ANY OTHER SPECIAL, CONSEQUENTIAL, CONTINGENT, INDIRECT, INCIDENTAL, PUNITIVE, EXEMPLARY, OR OTHER SIMILAR DAMAGES, EVEN IF DATALOGIC OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. END USER MUST BRING ANY ACTION UNDER THIS AGREEMENT WITHIN 12 (TWELVE) MONTHS AFTER THE CAUSE OF ACTION ARISES.

#### **6. Indemnification**

To the maximum extent permitted by law, End User agrees to defend, indemnify and hold harmless Datalogic, its affiliates and their respective directors, officers, employees and agents from and against any and all claims, actions, suits or proceedings, as well as any and all losses, liabilities, damages, costs and expenses (including reasonable attorney's fees) arising out of or accruing from or related to Licensee's failure to comply with the terms of this Agreement, including but not limited to (1) non compliance with any applicable laws or regulations with Datalogic product documentation, (2) unauthorized use or disclosure of Software, and (3) use of Software in combination with software, hardware, systems, or other items not provided by Datalogic.

#### **7. Support**

End User may request support for Software from Datalogic at Datalogic's standard support fees and under Datalogic's standard support terms and conditions in effect at the time the support is requested.

#### **8. Government Restricted Rights; International Use**

- 8.1 Use, duplication, or disclosure of the Software by the U.S. Government is subject to the restrictions for computer software developed at private expense as set forth in the U.S. Federal Acquisition Regulations at FAR 52.227-14(g), or 52.227-19 or in the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013(c)(1)(ii), whichever is applicable.
- 8.2 If End User is using the Datalogic Product outside of the United States, End User must comply with the applicable local laws of the country in which the Datalogic Product is used and with U.S. export control laws. Without prejudice of the foregoing, the End User agrees to not export or re-export the Software, any part thereof, or any process or service that is the direct product of the Software to any country, person or entity subject to U.S. export restrictions. End User specifically agrees not to export or re-export any of the Software: (i) to any country to which the U.S. has embargoed or restricted the export of goods or services or to any national of any such country, wherever



---

located, who intends to transmit or transport the Software back to such country; (ii) to any person or entity who you know or have reason to know will utilize the Software in the design, development or production of nuclear, chemical or biological weapons; or (iii) to any person or entity who has been prohibited from participating in U.S. export transactions by any federal agency of the U.S. government. End User warrants and represents that neither the U.S. Commerce Department, Bureau of Export Administration nor any other U.S. federal agency has suspended, revoked or denied its export privileges.

## 9. Third Party Software

The Datalogic Product may contain one or more items of third party software which use is governed by separate third party license, unless otherwise stated.

## 10. Notices

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 IP Tech S.r.l., Legal & IP Department, Via San Vitalino 13, 40012 Calderara di Reno (Bologna), Italy, or such other address as may be specified by Datalogic in writing.

## 11. General Provisions

11.1. Entire Agreement; Amendment. This document contains the entire agreement between the parties relating to use of the Datalogic Products and the licensing of the Software and supersedes all prior or contemporaneous agreements, written or oral, between the parties concerning the use of the Datalogic Products and licensing of the Software. This Agreement may not be changed, amended, or modified except by written document signed by Datalogic.

11.2. 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.

11.3. Governing Law; Venue: End User agrees to the application of the laws of the country in which End User obtained the license to govern, interpret, and enforce all of End User's and Datalogic's respective rights, duties, and obligations arising from, or relating in any manner to, the subject matter of this Agreement, without regard to conflict of law principles. The United Nations Convention on Contracts for the International Sale of Goods does not apply.

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:

The validity, interpretation and construction of the Agreement shall be governed by and construed in accordance with Laws of the Republic of Singapore. Parties expressly disclaim the application of the United Nations Convention for International Sale of Goods.

Any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to

and finally resolved by arbitration administered by the Singapore International Arbitration Centre ("SIAC") in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("SIAC Rules") for the time being in force, which rules are deemed to be incorporated by reference in this clause. 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.

11.4. 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.

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



# QuickScan™ QM21X1

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. The QuickScan QM21X1 readers have enhanced optics with improved motion tolerance allowing codes placed on fast moving objects to be easily and quickly captured, creating the ideal reader for tasks requiring high throughput like those found in retail and light industrial environments.

|                                   |  |
|-----------------------------------|--|
| <b>Omni-Directional Operation</b> | To read a symbol simply aim the reader and pull the trigger. The QuickScan™ QM21X1 reader is a powerful omni-directional reader, so the orientation of the symbol is not important. Datalogic's exclusive patented 'Green Spot' for good-read feedback helps to improve productivity in noisy environments or in situations where silence is required. |
| <b>Decoding</b>                   | Reliably decodes all standard 1D (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. Configure the Base Station starting on page 3.
2. Charge the Batteries (see page 7).
3. Link to the Base Station (see page 10).
4. Select the Interface Type (see page 12).
5. Configure the Reader starting on page 11 (optional, depends on settings needed).

## Locking the Reader to the Base

The Base Station provides a locking mechanism to ensure electrical contact between Reader and Base, in case of inadvertent movements.



### To Lock the Reader in the Base

1. Insert the Reader into the Base. The lock lever rests in its natural disengaged position toward the bottom of the Base.

Figure 1. Lock lever disengaged



2. Engage the locking mechanism by pushing up the lever as far as it will go.

**Figure 2. Lever in locked position**



**NOTE**

it is good practice to put the scanner in the locked condition at the end of the working shift, or when not in use for an extended period of time. This will ensure that the scanner is fully seated for complete battery recharge.

## Connecting the Base Station

Figure 3 shows how to connect the Base Station to a terminal, PC or other host device. Turn off the host before connection and consult the manual for that equipment (if necessary) before proceeding. Connect the interface cable before applying power to the Base Station.



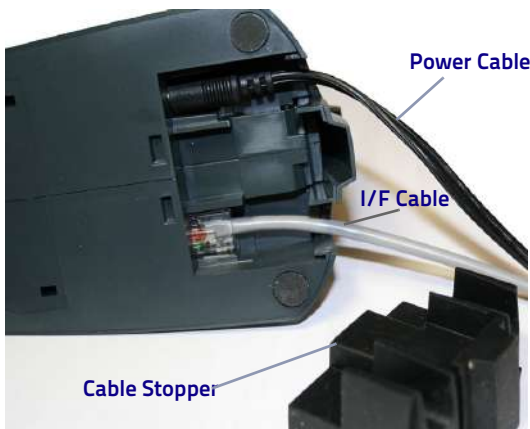
**NOTE**

The QuickScan QM21X1 reader can also be Powered by the Terminal. When powered by the Terminal, the battery charger is automatically set as Slow charge.

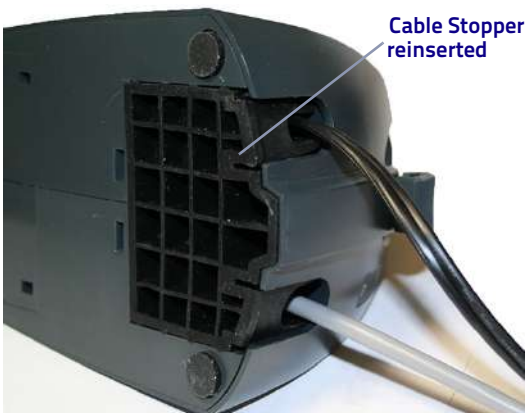
For some specific interfaces, hosts, or lengths of cable the use of an external power supply may be recommended for full recharging capability (see "Technical Specifications" on page 26 for more details).

## Base Station Connection and Routing

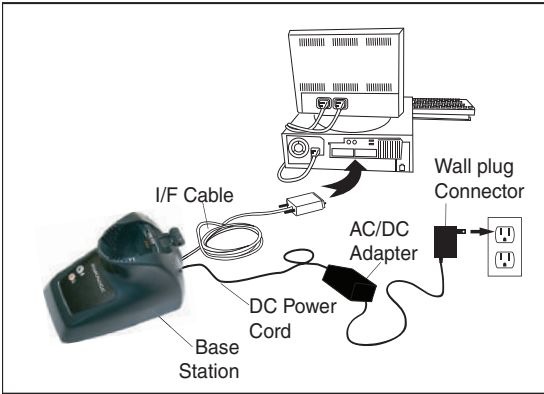
1. Remove the rubber Cable Stopper from the bottom of the Base Station.
2. Securely plug the Power Cable (if used) and Interface (I/F) Cable connectors into their respective ports in the underside of the Base Station.



3. After the cables are plugged in, reinsert the rubber Cable Stopper.

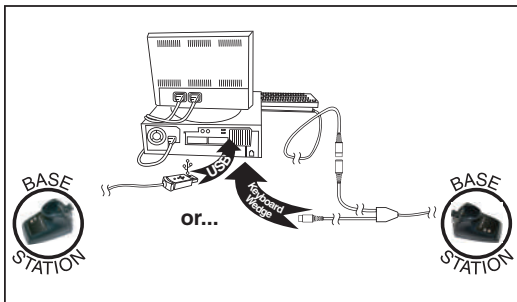


4. Connect the Base Station power adapter to an AC wall outlet.

**Figure 3. Connecting the Base Station**

**Host Connection** — Verify before connection that the reader's cable type is compatible with your host equipment.

Most connections plug directly into the host device as shown in Figure 4. Keyboard Wedge interface cables have a 'Y' connection where its female end mates with the male end of the cable from the keyboard and the remaining end at the keyboard port on the terminal/PC.

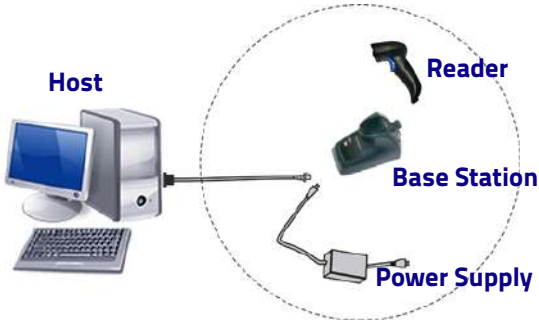
**Figure 4. Connecting to the Host**

**Power Connection** — Plug the AC Adapter into an approved AC socket. If plugged into the wall, ensure cable is facing downwards (as shown in Figure 3) to prevent undue strain on the socket.

## System and Network Layout

### Typical Setup with Cradle and Host

Figure 5. Reader Layout



## Using the BC20XX™ Radio Base

### Radio Base LEDs





LEDs on the QuickScan Base provide information about the Base as well as battery charging status, as shown in Figure 6.

Figure 6. QuickScan Base LEDs





**Table 1. Radio Base LEDs**

|   | LED                         | STATUS  |
|---|-----------------------------|---|
|  | Power on / Data             | Yellow On = Base is powered<br>Yellow Blinking = Base receives data and commands from the Host or the Reader. |
|  | Charging                    | Red On = the Battery is charging.   |
|  | Charge completed            | Green On = the Battery is completely charged.   |
|  | Charging + Charge completed | Red and Green Blinking together = the Reader is not correctly placed onto the Base.                           |

## Charging the Battery Pack

To charge the battery, simply insert the QuickScan reader into the base. When the scanner is fully seated in the cradle, it will sound a 'chirp' to indicate that the cradle has detected the scanner connection.

The LEDs on the base (shown in [Table 1 on page 7](#)) will indicate the status of the battery.



### NOTE

**Before using the Battery, read "Battery Safety" in the accompanying Regulatory Addendum. Data-logic recommends annual replacement of rechargeable battery packs to ensure maximum performance.**

Alternatively, the battery can be charged by connecting the reader directly to a host through the micro-USB connector available in the bottom of the handle, as shown.



## Replacing the Battery Pack

1. Using a coin or screwdriver, unscrew the captive screw located on the bottom of the scanner handle until the battery pack is disengaged.



The battery pack will rise slightly in the rear, pushed by the contact springs.

2. Extract the battery pack by slightly rotating the pack and pulling away from the reader.



To mount the new battery pack reverse the process:

1. Insert the top of the new pack inside the reader's handle.
2. Rotate the battery pack downward while pressing the bottom side of the battery pack (to seat securely into the contacts springs) so that the edges of the pack and the handle board are aligned, while re-tightening the screw in the bottom of the handle.

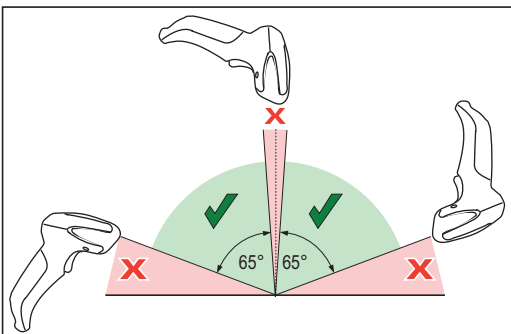
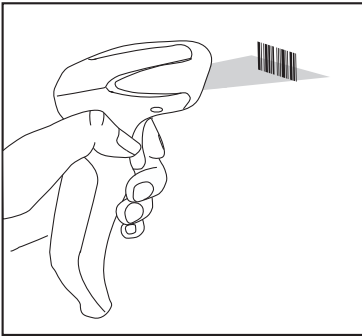
# Using the Quickscan™ QM21X1

## 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 symbol is decoded.

When scanning a bar code label, you can adjust the distance or angle to the label to help facilitate reading.

### Aim and Scan



# Linking the Reader

## Link Datalogic RF Devices to Base

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

To link the handheld and the base, either press the trigger to wake it, or simply mount into the base to wake up for operation. If the reader was previously linked to another base, you must first scan the **Unlink** bar code before re-linking to the new base.



## Power Off

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



## 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 Product Reference Guide (PRG). Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters.

The reader can also be configured with Datalogic Aladdin™ software (available on the Datalogic website). Aladdin provides RS-232 interface configuration, as well as bar code printing.

## Using Programming Bar Codes

This manual contains bar codes which allow you to reconfigure your reader. Some programming bar code labels, like the "Standard Product Default Settings" on page 11, 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 Standard Product Defaults

Reference the PRG for a listing of standard factory settings. If you aren't sure what programming options are in your reader, or you've changed some options and want the factory settings restored, scan the **Standard Product Default Settings** bar code below to copy the factory configuration for the currently active interface to the current configuration.



### NOTE

**Factory defaults are based on the interface type. Configure the reader for the correct interface before scanning this label.**



Standard Product Default Settings

## Selecting the Base Interface Type

Upon completing the physical connection between the base and its host, proceed directly to Interface Selection (below) for information and programming for the interface type the base is connected to (for example: RS-232, Keyboard Wedge, USB) and scan the appropriate bar code to select your system's correct interface type.

### Interface Selection

The base will support the following host interfaces:

- RS-232
- RS-232 OPOS
- USB
- Keyboard Wedge

For defaults and additional information associated with each interface, proceed to the corresponding chapter in the Quick-Scan Q21XX PRG.

### Configuring the Interface

Scan the programming bar code which selects the appropriate interface type for the system the reader will be connected to.



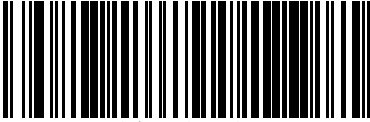
#### NOTE

**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.**

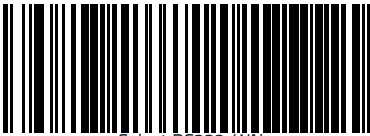
## RS-232

RS-232 standard interface



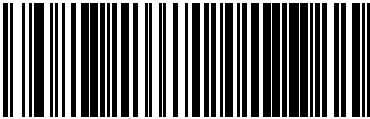
Select RS232-STD

RS-232 Wincor-Nixdorf



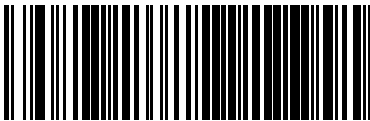
Select RS232-WN

RS-232 for use with OPOS/UPOS/JavaPOS



Select RS-232 OPOS

USB COM to simulate RS-232 standard interface



Select USB-COM-STD<sup>a</sup>

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

## USB-OEM

USB-OEM

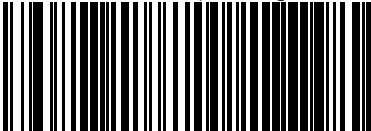
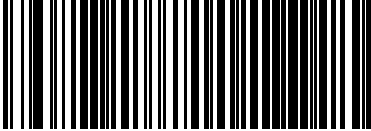
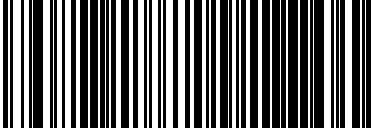
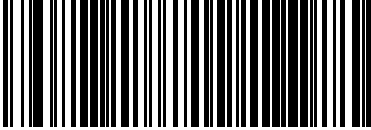
(can be used for OPOS/UPOS/JavaPOS)



Select USB-OEM

## Keyboard Interface

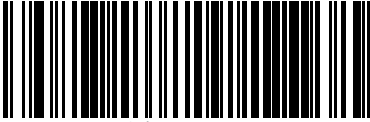
Use the programming bar codes to select options for USB Keyboard and Wedge Interfaces.

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



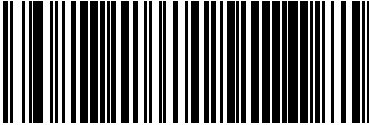
## KEYBOARD (continued)

PC/XT w/Standard Key Encoding



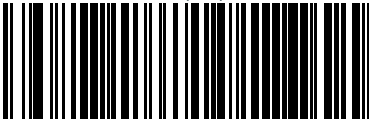
Select KBD-XT

Keyboard Wedge for IBM Terminal 3153



Select KBD-IBM-3153

Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx  
make only keyboard



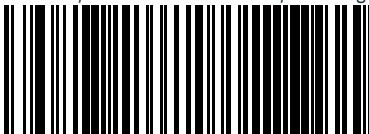
Select KBD-IBM-M

Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx  
make break keyboard

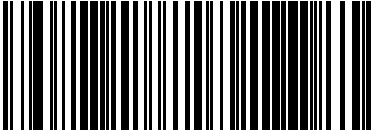
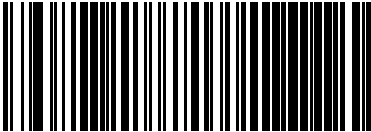
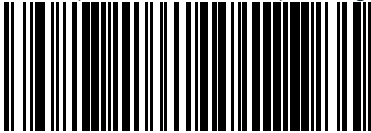


Select KBD-IBM-MB

USB Keyboard with alternate key encoding



Select USB Alternate Keyboard

| KEYBOARD (continued)  |
|---|
| <div>USB Keyboard for Apple computers</div> <div></div> <div>Select USB-KBD-APPLE</div>                          |
| <div>Keyboard Wedge for DIGITAL Terminals<br/>VT2xx, VT3xx, VT4xx</div> <div></div> <div>Select KBD-DIG-VT</div> |
| <div>USB Keyboard with standard key encoding</div> <div></div> <div>Select USB Keyboard</div>                   |

Scancode Tables

Reference the QuickScan QM21X1™ PRG for information about control character emulation which applies to keyboard interfaces.

Country Mode

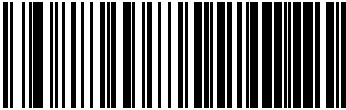
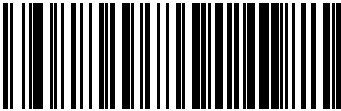


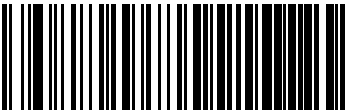
This feature specifies the country/language supported by the keyboard. Only these interfaces support ALL Country Modes:

- 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.

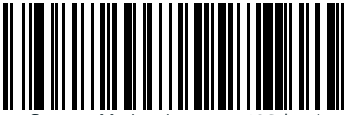
| COUNTRY MODE  |
|---|
|  <p>ENTER/EXIT PROGRAMMING MODE</p>      |
|  <p>Country Mode = U.S.</p>              |
|  <p>Country Mode = Belgium</p>          |
|  <p>Country Mode = Britain</p>         |
|  <p>Country Mode = Croatia*</p>        |
|  <p>Country Mode = Czech Republic*</p> |

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

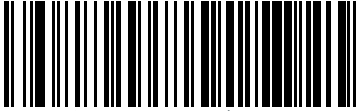
| COUNTRY MODE (continued)  |
|---|
| <div><p>Country Mode = Denmark*</p></div>        |
| <div><p>Country Mode = France</p></div>          |
| <div><p>Country Mode = French Canadian</p></div> |
| <div><p>Country Mode = Germany</p></div>       |
| <div><p>Country Mode = Hungary*</p></div>      |
| <div><p>Country Mode = Italy</p></div>         |

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

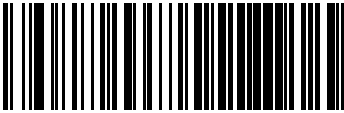
## COUNTRY MODE (continued)



Country Mode = Japanese 106-key\*



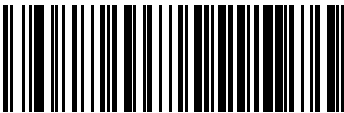
Country Mode = Lithuanian



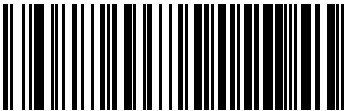
Country Mode = Norway\*



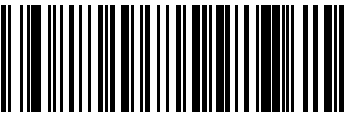
Country Mode = Poland\*



Country Mode = Portugal\*



Country Mode = Romania\*



Country Mode = Slovakia\*

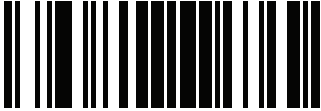
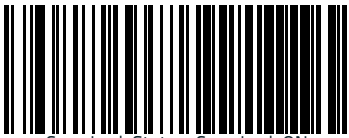
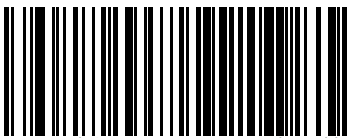
\*Supports only the interfaces listed in the Country Mode feature description

| COUNTRY MODE (continued)  |
|---|
| <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

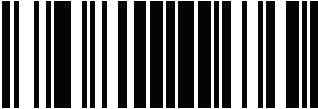
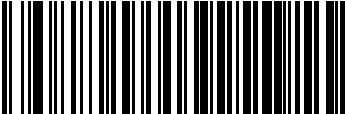
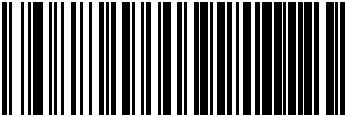
## Caps Lock State

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

| CAPS LOCK STATE  |
|--|
| <br>ENTER/EXIT PROGRAMMING MODE               |
| <br>Caps Lock State = Caps Lock OFF           |
| <br>Caps Lock State = Caps Lock ON           |
| <br>Caps Lock State = AUTO Caps Lock Enable |

## Numlock

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

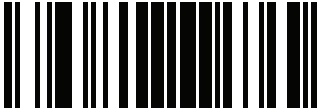
| NUMLOCK  |
|--|
| <br>ENTER/EXIT PROGRAMMING MODE     |
| <br>Numlock = Numlock key unchanged |
| <br>Numlock = Numlock key toggled |



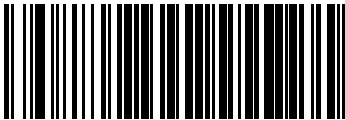
## Good Read Green Spot Duration

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

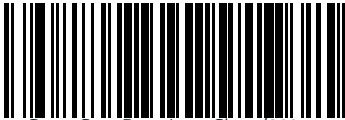
### GOOD READ GREEN SPOT DURATION



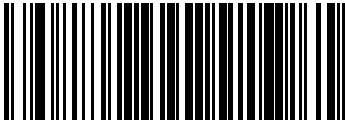
ENTER/EXIT PROGRAMMING MODE



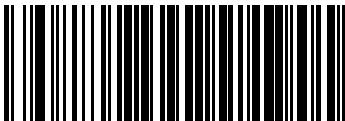
Green Spot Duration = Disable (Green Spot is Off)



♦ Green Spot Duration = Short (300 msec)



Green Spot Duration = Medium (500 msec)



Green Spot Duration = Long (800 msec)

# Scan Modes

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 duration<sup>1</sup> has elapsed
- a label has been read
- the trigger is released

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 or a programmable duration<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.

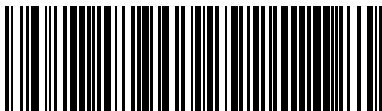
**Trigger Pulse Multiple** — When the trigger is pulled and released, scanning is activated until programmable duration<sup>1</sup> has elapsed or the trigger has been pulled again to transition to another state. Double Read Timeout<sup>1</sup> prevents undesired multiple reads while in this mode.

**Flashing** — The reader flashes<sup>1</sup> on and off regardless of the trigger status.

**Always On** — No trigger pull is required to read a bar code. Scanning is continually on. If the trigger is pulled, the reader acts as if it is in Trigger Single Mode. Double Read Timeout<sup>1</sup> prevents undesired multiple reads while in this mode.

**Stand Mode** — No trigger pull is required to read a bar code. Scanning is turned on automatically when an item is placed in reader's field of view. If the trigger is pulled, the reader acts as if it is in Single Read mode. Double Read Timeout<sup>1</sup> prevents undesired multiple reads while in this mode.

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

**SCAN MODE**

♦ Scan Mode = Trigger Single



Scan Mode = Trigger Hold Multiple



Scan Mode = Trigger Pulse Multiple



Scan Mode = Flashing



Scan Mode = Always On



Scan Mode = Stand Mode

# Technical Specifications

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

| Physical Characteristics                                |  |
|---|--|
| Color   | Black or White   |
| Dimensions  | Height 6.4"/163 mm<br>Length 3.6"/91 mm<br>Width 1.6"/41 mm  |
| Weight<br>(approximate, without cable)                  | Reader - 6.7 ounces (190 g)<br>Cradle - 7.6 ounces (215 g)   |
| Electrical Characteristics                              |  |
| Battery Type  | Lithium-Ion 1400 mAh   |
| Typical charge time for full charge from full discharge | 6 hours with Host Power through the micro USB cable connection   |
|   | 4 hours with Base and 12V external power supply adapter <sup>a</sup>   |
|   | Max 22 hours with Base and Host power (in this case no supply adapter is needed) <sup>a</sup>                  |
| Operating autonomy (continuous reading)                 | 30,000 reads (typical)   |
| Cradle consumption and DC input supply range            | Volt 4.75-14 VDC; Power <8W <sup>b</sup> ; I <sub>max</sub> 500mA when in host/bus powered mode <sup>b</sup> . |

| Performance Characteristics    |                            |
|--------------------------------|----------------------------|
| Light Source                   | LEDs                       |
| Roll (Tilt) Angle <sup>c</sup> | Up to $\pm 45^{\circ}$     |
| Pitch Angle <sup>c</sup>       | $\pm 65^{\circ}$           |
| Skew (Yaw) Angle <sup>c</sup>  | $\pm 70^{\circ}$           |
| Field of View                  | $56^{\circ} \pm 2^{\circ}$ |

- a. Charge Times are much lower when battery is within daily typical operating condition.
- b. Typical input current measured under factory default configuration.
- c. Based on ISO 15423 specifications

| Depth of Field (Typical) <sup>a</sup>   |                         |
|---|-------------------------|
| 4 mils: 3.0 to 11.0 cm / 1.2 to 4.3 in<br>5 mils: 2.0 to 15.0 cm / 0.8 to 5.9 in<br>7.5 mils: 2.0 to 25.0 cm / 0.8 to 9.8 in<br>10 mils: 2.0 to 36.0 cm / 0.8 to 14.2 in<br>13 mils UPC: 1.0 to 45.0 cm / 0.4 to 17.7 in<br>20 mils: up to 70.0 cm / up to 27.5 |                         |
| Minimum Element Width   | 4 mil                   |
| Print Contrast Minimum  | 25% minimum reflectance |

- a. Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

| Decode Capability  |  |
|--|--|
| 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); Danish PPT; 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; Discrete 2 of 5; Datalogic 2 of 5 (China Post Code/Chinese 2 of 5); IATA 2of5 Air cargo code; Code 11; Codabar; Codabar (NW7); ABC Codabar; Code 93; MSI; PZN; Plessey; Anker Plessey; Follet 2 of 5; GS1 DataBar Omnidirectional; GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Truncated; DATABAR Expanded Coupon. |  |
| Interfaces Supported <sup>a</sup>  |  |
| RS-232 Std, RS-232 Wincor-Nixdorf, RS-232 OPOS, USB Com Std., USB Keyboard, USB Alternate Keyboard, USB OEM, Keyboard Wedge (AT with or w/o Alternate Key, IBM AT PS2 with or w/o Alternate Key, PC-XT, IBM 3153, IBM Terminals 31xx, 32xx,34xx, 37xx make only and make break keyboard, Digital Terminals VT2x, VT3xx, VT4xx, and Apple).   |  |
| User Environment   |  |
| Operating Temperature  | 32° to 122° F (0° to 50° C)  |
| Charging Temperature   | 32° to 104° F (0° to 40° C)  |
| Storage Temperature  | -4° to 158° F (-20° to 70° C)                                      |
| Humidity   | Operating: 5% to 90% relative humidity, non-condensing             |
| Drop Specifications  | Scanner withstands 18 drops from 1.5 meters (4.9 feet) to concrete |

|  |                             |
|--|-----------------------------|
| Ambient Light Immunity                           | Up to 120,000 Lux           |
| Contaminants<br>Spray/rain Dust/<br>particulates | IEC 529-IP42 (scanner only) |
| ESD Level<br>(Air Discharge)                     | 16 kV                       |

- a. See "Interface Selection" on page 12 for a listing of available interface sets by version type.

|                          |
|--------------------------|
| <b>Regulatory</b>        |
| See regulatory addendum. |

|                          |        |
|--------------------------|--------|
| <b>Radio Features</b>    |        |
| Frequency working center | 433MHz |
| Range (in open air)      | 25 m   |

## LED and Beeper Indications

The reader’s beeper sounds and its LED illuminates to indicate various functions or errors on the reader. An optional ‘Green Spot’ also performs useful functions. The following tables list these indications. One exception to the behaviors listed in the tables is that the reader’s functions are programmable, and so may or may not be turned on. For example, certain indications such as the power-up beep can be disabled using programming bar code labels.

| Indication                  | Description   | LED  | Beeper  |
|-----------------------------|---|--|---|
| Power-up Beep               | The reader is in the process of power-ing-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 informa-tion.) | The reader will beep once at cur-rent frequency, volume, mono/bi-tonal setting and duration upon a successful label scan. |
| ROM Failure                 | There is an error in the reader’s soft-ware/program-ming                                      | Flashes  | Reader sounds one error beep at highest volume.   |
| Limited Scanning Label Read | Indicates that a host connection is not established when the IBM or USB interface is enabled. | N/A  | Reader ‘chirps’ six times at the high-est 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   |



| Indication                                  | 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    |

a 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.                             |

## 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. 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   |                                 |
| 12                           | Imager        |                                 |

## Base Station Indications

| Indication  | LEDs  |
|---|---|
| Power-up Complete   | Yellow LED on                                   |
| Reader Disabled by the HOST or the communication with HOST is not established | Yellow LED blinking ~1Hz                        |
| Data/labels are transmitted to the HOST                                       | Yellow LEDs turned off for 100mSec              |
| Programming Mode  | Yellow LED blinks quickly                       |
| Configuration alignment with the HH is in progress                            | Red LED blinks quickly                          |
| Battery charger in progress   | Red LED on                                      |
| Battery charger complete  | Green LED on                                    |
| Battery charger error   | Green LED and Red LEDs blink alternatively ~1Hz |
| No HH is placed on the cradle   | Red and Green LEDs off                          |

# 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 three 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

**To avoid or minimize potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure 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 frequently used objects 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.

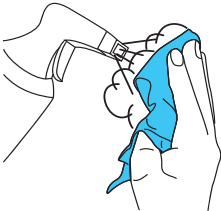
## Cleaning

Exterior surfaces and scan windows exposed to spills, smudges or debris require periodic cleaning to ensure best performance during scanning. Contacts on the scanner and base should also be cleaned as needed to ensure a good connection.



### CAUTION

**Always be sure to unplug the reader and base from the wall plug before touching the contacts.**



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, contacts 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](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 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

# NOTES





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

©2014-2017 Datalogic S.p.A. and/or its affiliates ■ All rights reserved.

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries, including the U.S.A. and the E.U.

**Datalogic USA, Inc.**

959 Terry Street | Eugene, OR 97402 | USA

Telephone: (541) 683-5700 | Fax: (541) 345-7140



820097614

(Rev B)

September 2017