

 **DATALOGIC**

## QuickScan™ i

QD2100 General Purpose Coded  
Handheld Linear Imager Bar Code Reader



**Quick Reference Guide**

## Datalogic ADC, Inc.

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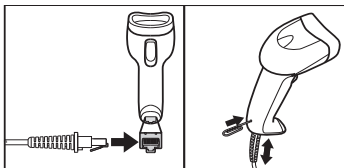
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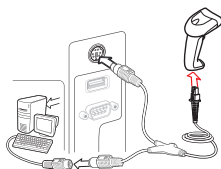
## NOTES



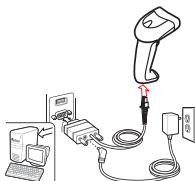
**1** Connect/Disconnect Cable



**2** Connect Host Interface  
Keyboard Wedge Interface



**RS-232 Interface**



**USB Interface**

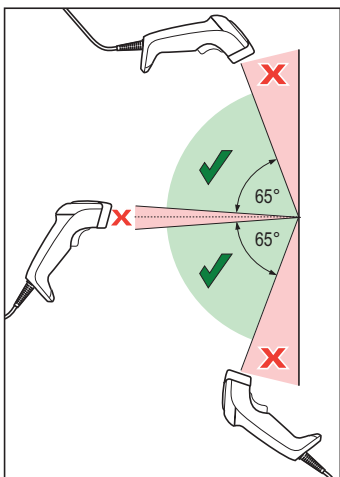
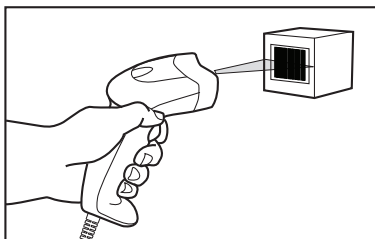


**IBM 46xx Interface**

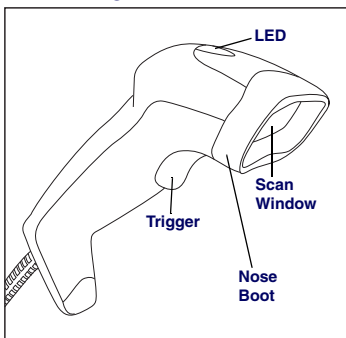


### Aim and Scan

3



## Parts of the Imager



## Scanning 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: when the trigger is pulled, scanning starts and the product scans until the trigger is released, or a label is read, or the maximum programmable duration<sup>1</sup> has elapsed.

**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>2</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>2</sup> prevents undesired multiple reads while in this mode.

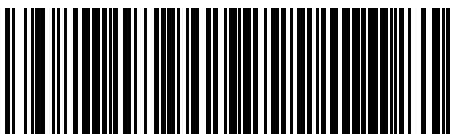
**Flashing** — The reader flashes<sup>3</sup> on and off regardless of the trigger status.

- 
1. See the Product Reference Guide (PRG) for additional programmable features, in this case: Scanning Active Time.
  2. Double Read Timeout is also programmed using the PRG.
  3. Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.
-

**Always On** — No trigger pull is required to read a barcode. 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 **Trigger Single** mode. Double Read Timeout<sup>2</sup> prevents undesired multiple reads while in this mode.

**Trigger Object Sense** — This mode is similar to **Stand Mode**, except that a trigger pull is required to activate the decoder.



Scan Mode = Trigger Single



Scan Mode = Trigger Hold Multiple



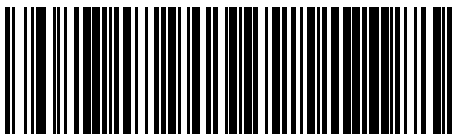
Scan Mode = Trigger Pulse Multiple

- 
1. Double Read Timeout is programmed using the PRG.
  2. Double Read Timeout is programmed using the PRG.

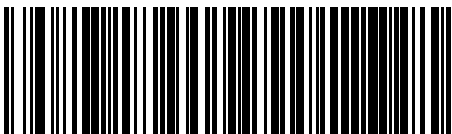
**Scanning Modes — continued**



Scan Mode = Flashing



Scan Mode = Always On



Scan Mode = Stand Mode



Scan Mode = Trigger Object Sense

## Troubleshooting

Problem	Possible Cause	Possible Solutions
Nothing happens when the scan button is pulled.	No power to the imager.	Check system power. Ensure power supply is connected.
	Interface or power cables are loose.	Ensure all cable connections are secure.
LED comes on, but barcode does not decode.	Imager not programmed for correct barcode type.	Ensure imager 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 imager and barcode is incorrect.	Move imager 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.	Imager not programmed for the correct host type.	Scan the appropriate host type barcode. Refer to the Product Reference Guide (PRG) for more information.



For detailed troubleshooting, refer to the Product Reference Guide.

## LED and Beeper Indications

The imager's beeper sounds and its LED illuminates to indicate various functions or errors on the reader. A "Green Spot" also lights to indicate a good read. The tables below list these indications. One exception to the behaviors listed in the tables is that the reader's functions are programmable, and may or may not be turned on. For example, certain indications, such as the power-up beep can be disabled using programming barcode labels. Reference the PRG for a more detailed list.

Indication	LED	Beeper
Power-up	LED flashes/blinks on power-up, however, this may be too rapid to view. With a USB interface, the LED blinks until enumeration with the host is completed.	Imager beeps four times at highest frequency and volume upon power-up.
Good Read	LED behavior for this indication is configurable using the PRG.	One beep at current frequency, volume, mono/bi-tonal setting and duration upon a successful label scan.
ROM Failure	200ms on / 200ms off	Imager sounds one error beep at highest volume for 200 mS.
Limited Scanning Label Read	N/A	Imager 'chirps' six times at the highest frequency and current volume.
Imager Disabled	The LED blinks continuously 100mS on / 900 mS off	N/A

## Programming Barcodes

For your convenience, this guide includes the programming barcodes required to configure the imager for use with different interface (terminal/host) types.

See the Product Reference Guide (PRG) for more complete information about programming and configurable features. You can download the latest version of the PRG and any other available publications for the imager from the website listed on the back cover of this manual.

## Resetting the Standard Product Defaults

If you aren't sure what programming options are in your imager, or you've changed some options and want the factory settings restored, scan the Factory Default Settings barcode below. This will copy the factory configuration for the currently active interface to the current configuration.



Factory Default Settings

## Host Interfaces



### NOTE

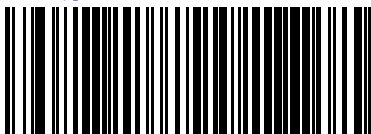
Cables may vary depending upon system configuration.

Some interfaces require the imager to start in the disabled state when powered on. If additional imager configuration is desired while in this state, pull the trigger and hold it for five seconds. The imager will change to a state that allows programming with barcodes.

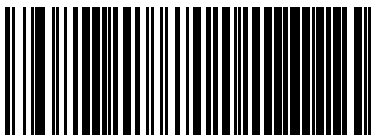


**RS-232 Interface**

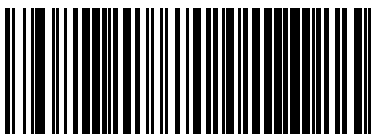
To use an RS-232 interface, scan the barcode for the desired RS-232 host type.



Select RS-232 Standard

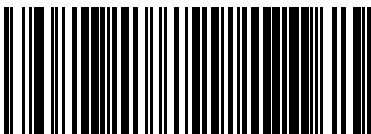


Select RS-232 Wincor Nixdorf

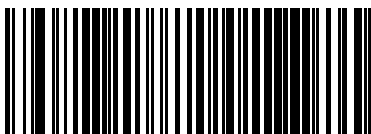


Select RS-232 OPOS (for use with OPOS/UPOS/JavaPOS)

**IBM Interface**



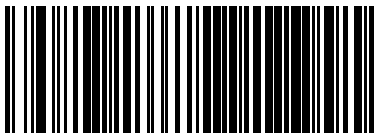
Select IBM Port 5B



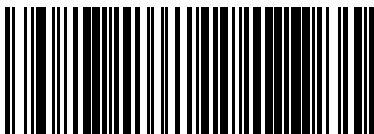
Select IBM Port 9B

## USB Interface

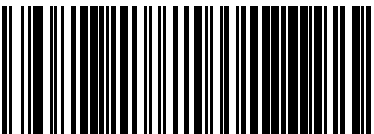
The imager attaches directly to a USB host, or a powered USB hub, and is powered by it. No additional power supply is required. When using a USB interface, the imager auto-detects the USB and defaults to the HID keyboard interface.



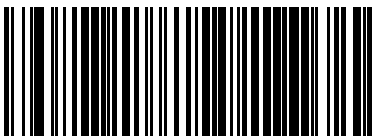
Select USB-COM-STD<sup>1</sup> (simulates RS-232 standard interface)



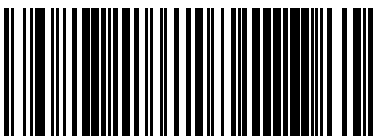
Select USB Keyboard (with standard key encoding)



Select USB Alternate Keyboard (with alternate key encoding)



Select USB OEM



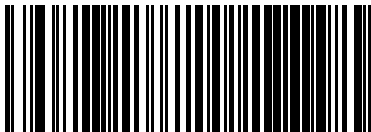
Select USB-KBD-APPLE (for Apple computers)

---

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

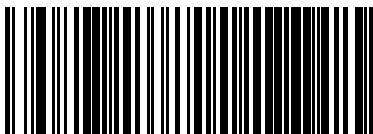
### Keyboard Wedge Interface

To use a Keyboard Wedge interface, scan the barcode for the desired keyboard type.



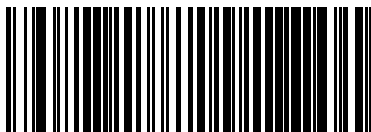
Select KBD-AT

(AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95  
w/Standard Key Encoding)



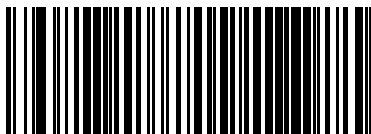
Select KBD-AT-NK

(IBM AT PS2 with standard key encoding but without external kbd.)



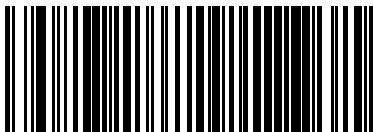
Select KBD-AT-ALT

(AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95  
w/Alternate Key)

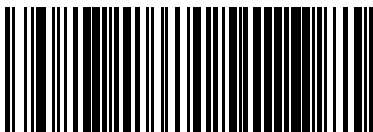


Select KBD-AT-ALT-NK (for IBM AT PS2 with alternate key  
encoding but without external keyboard)

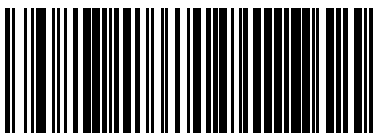
## Keyboard Wedge Interface — continued



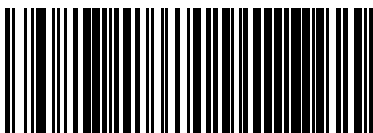
Select KBD-XT (PC/XT w/Standard Key Encoding)



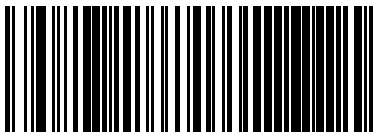
Select KBD-IBM-3153 (for IBM Terminal 3153)



Select KBD-IBM-M  
(for IBM Terminals 31xx, 32xx, 34xx, 37xx make only keyboard)



Select KBD-IBM-MB  
(for IBM Terminals 31xx, 32xx, 34xx, 37xx make break keyboard)



Select KBD-DIG-VT  
(for DIGITAL Terminals VT2xx, VT3xx, VT4xx)

## 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.

## Regulatory Information

All models are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required. Any changes or modifications to equipment, not expressly approved by Datalogic could void the user's authority to operate the equipment.

## Power Supply

Use only a power supply approved by Datalogic for this product and model. Models require either a Listed class II or class III with a Limited Power Source(LPS) which supplies power directly to the imager. For the safety certification to be valid, class III input power sources must be IEC/EN60950-1 (EN 60335-series, EN 60065 or relevant) approved.

Input: 100 - 240 VAC Output: 5.2 VDC

Max Current: 0.4 Amps Power: 15 Watts



Atención

### Características de la fuente de alimentación eléctrica.

Entrada: 100 - 240 Vca  
350mA 50/60 Hz  
Salida: +5 VDC @ 2.5A  
(-) Negativo al centro

Utilice en su red solo fuentes certificadas en Argentina.

El uso de fuentes de alimentación no compatibles puede resultar en riesgo de incendio o de choque eléctrico para el usuario.



### NOTE

For USB Power Off Terminal applications, attach to USB 1.0, 1.1 or 2.0 host device only.

## Hinweis

Benutzen Sie nur eine von Datalogic genehmigte Stromversorgung. Die Modelle erfordern eine Stromquelle der Klasse II oder III mit einer Leistungsbegrenzung (LPS). Für eine gültige Sicherheitszertifizierung müssen Klasse III Stromquellen am Eingang nach den Bestimmungen IEC/EN60950-1 (EN 60335-Serien, EN 60065 oder entsprechenden) zugelassen sein.

Eingang: 100 - 240 VACAusgang: 5.2 VDC

Max. Strom: 0.4 AmpsMax. Leistung: 15 W

## Radio Frequency Interference Requirements



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



**CAUTION**

The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

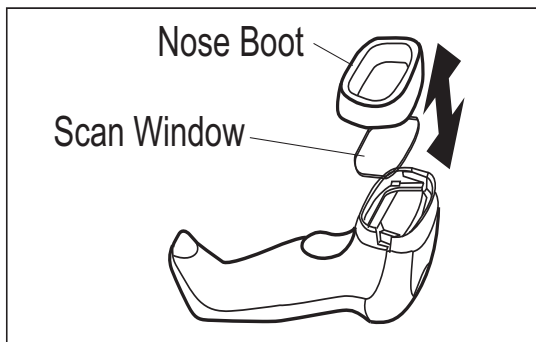
## Radio Frequency Interference Requirements - Canada

This Class B digital apparatus complies with Canadian IC-ES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Replacing the Scan Window

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



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



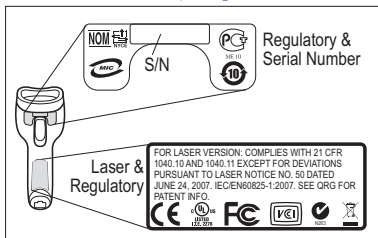
### CAUTION

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

## Imager Labeling

Labels are shown here to illustrate their location only. Please view the labels on your product for actual details.



## Waste Electrical and Electronic Equipment (WEEE) Statement

### English

For information about the disposal of Waste Electrical and Electronic Equipment (WEEE), please refer to the website at [www.datalogic.com](http://www.datalogic.com).

### Italian

Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web [www.datalogic.com](http://www.datalogic.com).

### French

Si desea información relativa à l'élimination des déchets électroniques (WEEE), veuillez consulter le site internet [www.datalogic.com](http://www.datalogic.com).

### German

Informationen zur Entsorgung von Elektro- und Elektronik-Altgeräten (WEEE) erhalten Sie auf der Webseite [www.datalogic.com](http://www.datalogic.com).

### Spanish

Si desea información acerca de los procedimientos para el desecho de los residuos del equipo eléctrico y electrónico (WEEE), visite la página Web [www.datalogic.com](http://www.datalogic.com).

### Portuguese

Para informações sobre a disposição de Sucatagem de Equipamentos Elétricos e Eletrônicos (WEEE -Waste Electrical and Electronic Equipment), consultar o site web [www.datalogic.com](http://www.datalogic.com).

### Chinese

有关处理废弃电气电子设备 (WEEE)的信息,请参考 Datalogic 公司的网站: [www.datalogic.com](http://www.datalogic.com)。

### Japanese

廃電気電子機器 (WEEE) の処理についての関連事項は Datalogic のサイト [www.datalogic.com](http://www.datalogic.com) をご参照下さい。



## Datalogic ADC Limited Factory Warranty

### Warranty Coverage

Datalogic ADC ("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.

PART	部件名称	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
		铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
Cable	电缆	X	O	O	O	O	O
Assy. Module	光学组件	X	O	O	O	O	O
Printed Circuit Board Assy	电路板组件	X	O	O	O	O	O

**O:** 代表此种部件的所有均质材料中所含的该种有毒有害物质均低于中华人民共和国信息产业部所颁布的《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006) 规定的限量。

**X:** 代表此种部件所用的均质材料中, 至少有一类材料其所含的有毒有害物质高于中华人民共和国信息产业部所颁布的《电子信息产品中有毒有害物质的限量要求》(SJ/T 11363-2006) 规定的限量

EFUP determined by "Look-up Method" (scanner). 环保使用期限取决于“查表法”(扫描仪)



**Datalogic ADC, Inc.**  
**959 Terry Street**  
**Eugene, Oregon 97402**  
**USA**

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva di Datalogic ADC, Inc. per:  
 This Declaration of Conformity is issued under the sole responsibility of Datalogic ADC, Inc. for:  
 Cette déclaration de conformité est établie sous la seule responsabilité de Datalogic ADC, Inc.  
 Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Datalogic ADC, Inc. erteilt für:  
 Esta declaración de conformidad se expide bajo la exclusiva responsabilidad de Datalogic ADC, Inc. para:

**Quickscan i QD2100; Barcode Reader**

e tutti i suoi modelli  
 and all its models  
 et tous ses modèles  
 und seine Modelle  
 y todos sus modelos

sono conformi alle Direttive del Consiglio Europeo sottoelencate:  
 are in conformity with the requirements of the European Council Directives listed below:  
 sont conformes aux spécifications des Directives de l'Union Européenne ci-dessous:  
 den nachstehenden angeführten Direktiven des Europäischen Rats:  
 cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:

**2004/108/EC EMC Directive**  
**2006/95/EC Low Voltage Directive**  
**2011/65/EU RoHS Directive (8 June 2011)**

Basate sulle legislazioni degli Stati membri in relazione alla compatibilità elettromagnetica ed alla sicurezza dei prodotti.

On the approximation of the laws of Member States relating to electromagnetic compatibility and product safety.

Basée sur la législation des Etats membres relative à la compatibilité électromagnétique et à la sécurité des produits.

Über die Annäherung der Gesetze der Mitgliedsstaaten in bezug auf elektromagnetische Verträglichkeit und Produktsicherheit entsprechen.

Basado en la aproximación de las leyes de los Países Miembros respecto a la compatibilidad electromagnética y las Medidas de seguridad relativas al producto.

Questa dichiarazione è basata sulla conformità dei prodotti alle norme seguenti:

This declaration is based upon compliance of the products to the following standards:

Cette déclaration repose sur la conformité des produits aux normes suivantes:

Diese Erklärung basiert darauf, daß das Produkt den folgenden Normen entspricht:

Esta declaración se basa en el cumplimiento de los productos con las siguientes normas:

EN 55022 (CLASS B ITE ), SEPTEMBER 2006	LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENT
EN 55024, SEPTEMBER 1998: AMENDMENT A2:JUNE 2003	INFORMATION TECHNOLOGY EQUIPMENT - IMMUNITY CHARACTERISTICS LIMITS AND METHODS OF MEASUREMENT
EN 60950-1, APRIL 2006+A11:2009+A1:2010+A12:2011	INFORMATION TECHNOLOGY EQUIPMENT - SAFETY - PART 1 : GENERAL REQUIREMENTS
EN 50581, SEPT 2012	TECHNICAL DOCUMENTATION FOR THE ASSESSMENT OF ELECTRICAL AND ELECTRONIC PRODUCTS WITH RESPECT TO THE RESTRICTION OF HAZARDOUS SUBSTANCES

EUGENE, OREGON USA, APRIL, 2013



BRAD WEST  
 VICE PRESIDENT – GLOBAL SUPPLY CHAIN OPERATIONS



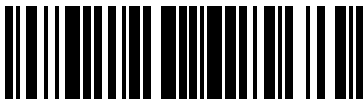
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**Datalogic ADC, Inc.**

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August 2013