

QuickScan™ i

QD2100 General Purpose Coded Handheld Linear Imager Bar Code Reader



Quick Reference Guide

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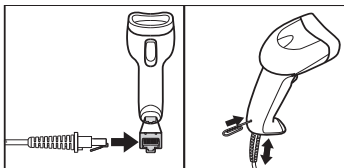
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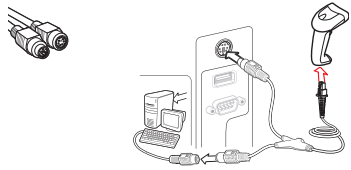
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NOTES

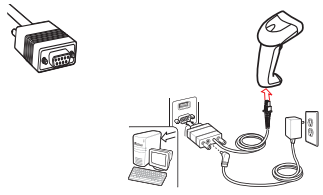
1 Connect/Disconnect Cable



2 Connect Host Interface
Keyboard Wedge Interface



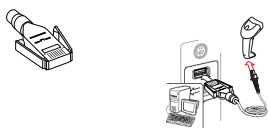
RS-232 Interface



USB Interface

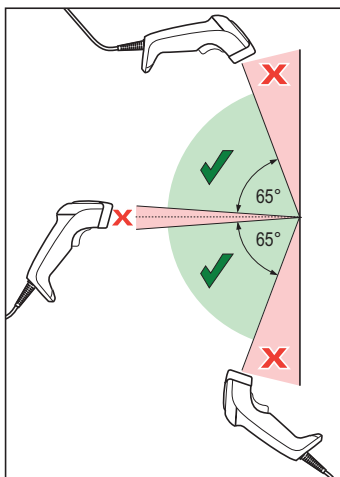
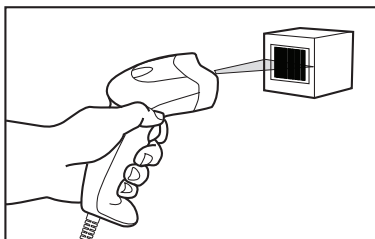


IBM 46xx Interface

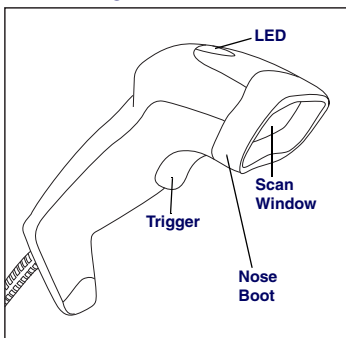


Aim and Scan

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 duration¹ 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 duration¹ has elapsed.

Trigger Hold Multiple — When the trigger is pulled, scanning starts and the product scans until the trigger is released or a programmable duration¹ has elapsed. Reading a label does not disable scanning. Double Read Timeout² prevents undesired multiple reads while in this mode.

Trigger Pulse Multiple — When the trigger is pulled and released, scanning is activated until programmable duration¹ has elapsed or the trigger has been pulled again to transition to another state. Double Read Timeout² prevents undesired multiple reads while in this mode.

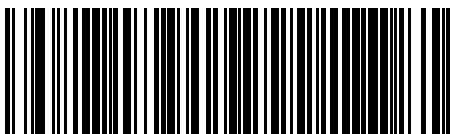
Flashing — The reader flashes³ on and off regardless of the trigger status.

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 Timeout¹ 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 Timeout² prevents undesired multiple reads while in this mode.

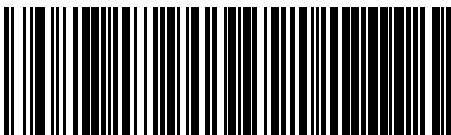
Trigger Object Sense — This mode is similar to **Stand Mode**, except that a trigger pull is required to activate the decoder.



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



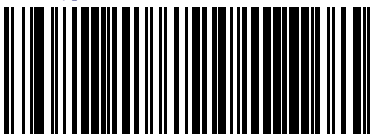
NOTE

Cables may vary depending upon system configuration.

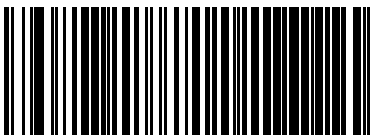
Some interfaces require the imager to start in the disabled state when powered on. If additional imager configuration is desired while in this state, pull the trigger and hold it for five seconds. The imager will change to a state that allows programming with barcodes.

RS-232 Interface

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



Select RS-232 Standard

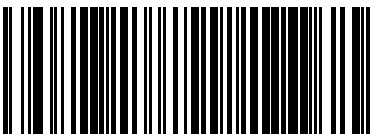


Select RS-232 Wincor Nixdorf

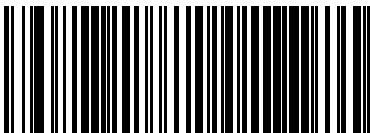


Select RS-232 OPOS (for use with OPOS/UPOS/JavaPOS)

IBM Interface



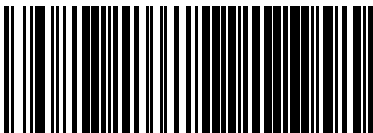
Select IBM Port 5B



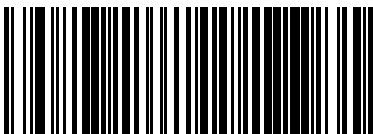
Select IBM Port 9B

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.



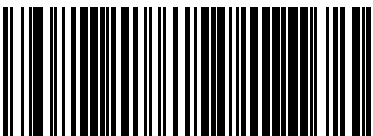
Select USB-COM-STD¹ (simulates RS-232 standard interface)



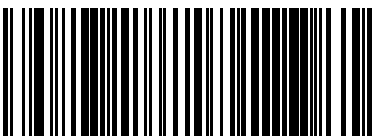
Select USB Keyboard (with standard key encoding)



Select USB Alternate Keyboard (with alternate key encoding)



Select USB OEM

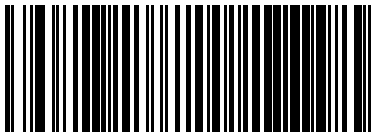


Select USB-KBD-APPLE (for Apple computers)

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

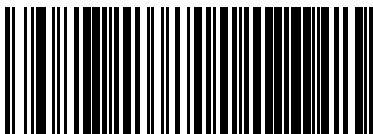
Keyboard Wedge Interface

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



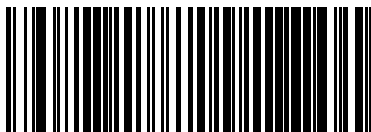
Select KBD-AT

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



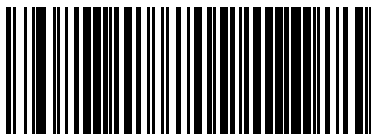
Select KBD-AT-NK

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



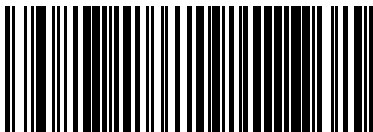
Select KBD-AT-ALT

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

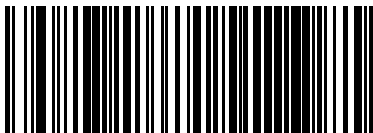


Select KBD-AT-ALT-NK (for IBM AT PS2 with alternate key
encoding but without external keyboard)

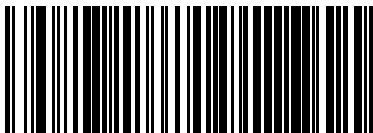
Keyboard Wedge Interface — continued



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

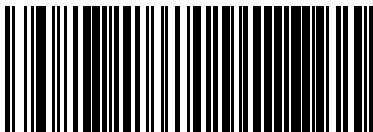


Select KBD-IBM-3153 (for IBM Terminal 3153)



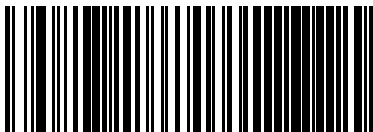
Select KBD-IBM-M

(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



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.

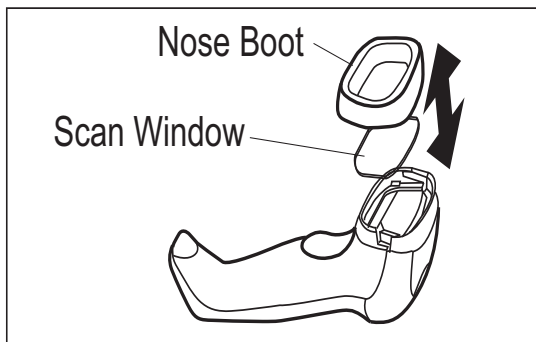
Radio Frequency Interference Requirements - Canada

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.



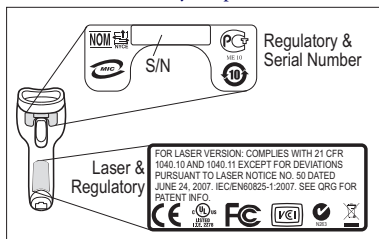
CAUTION

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.scanning.datalogic.com.

Italian

Per informazioni sullo smaltimento delle apparecchiature elettriche ed elettroniche consultare il sito Web www.scanning.datalogic.com.

French

Pour toute information relative à l'élimination des déchets électroniques (WEEE), veuillez consulter le site internet www.scanning.datalogic.com.

German

Informationen zur Entsorgung von Elektro- und Elektronik-Altgeräten (WEEE) erhalten Sie auf der Webseite www.scanning.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.scanning.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.scanning.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.scanning.datalogic.com。



Warranty

Datalogic warrants to Customer that Datalogic's products will be free from defects in materials and workmanship for a period of 5 years from product shipment. This warranty does not extend to batteries and cables. As consumable items batteries and cables carry a 90 day warranty from time of purchase for DOA (dead on arrival) defects. In order to obtain service under this Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the Warranty period and obtain from Datalogic a return authorization number for return of the product to 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.

Warranty is subject to the limitations and exclusions set forth in the paragraphs that follow.

WARRANTY SET FORTH ABOVE IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS.

Exclusions

Warranty coverage shall not apply to any claimed defect, failure or damage which Datalogic determines was caused by: improper use of product; failure to provide product maintenance, including but not limited to cleaning of the upper window in accordance with product manual; installation or service of product by other than Datalogic representatives; use of product with any other instrument, equipment or apparatus; modification or alteration of product. External cables and replacement of upper window/cartridge due to scratching, stains or other degradation will not be covered under the Warranty. External power supplies returned for service must be accompanied by the original product for performance of service.

Limitation of Liability

Datalogic's REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCT AS SET FORTH ABOVE IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY ON ACCOUNT OF CLAIMS OF BREACH OF WARRANTY OR PRODUCT DEFECT. 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.

Assignment

Customer may not assign or otherwise transfer its rights or obligations under 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.

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 or product being returned to Customer by Datalogic, except such loss or damage as may be caused by the negligence of Customer, its agents or employees. 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.

NOTES

EUROPEAN DECLARATION OF CONFORMITY



Datalogic Scanning, Inc. hereby declares that the apparatus specified below has been tested and found compliant to the following European Council Directives and Harmonized Standards:

Apparatus: QuickScan i: Model QD2100

Directives:

EMC 2004/108/EC

Low Voltage 2006/95/EC

RoHS 2002/95/EC

WEEE 2002/96/EC

Standards:

EN 55022:2006

CISPR 22:2007

AN/NZS CISPR22:2008

EN 55024:1998+A1:2001+A2:2003

Generic Emissions

Generic Emissions

Generic Emissions

Generic Immunity – ITE

(Includes EN61000-

4-2 (ESD), 4-4 (EFT),

4-5 (Surge),

4-6 (Cond Immunity) and

4-11 (Voltage dips/interruptions)

ITE Safety

Harmonic Current

Voltage Fluctuation/Flicker

Radiated RF Immunity

(Susceptibility)

IEC 60950-1:2007

EN 61000-3-2:2006

EN 61000-3-3:1995+A1:2001+A2:2005

EN 61000-4-3:2002

Equipment Type:

Interface Protocol:

Placed into EU Service:

Responsible Manufacturer:

Handheld Barcode Scanning Equipment

RS-232, USB, Keyboard Wedge, IBM

November 2008 under the Datalogic logo

Datalogic Scanning, Inc.

959 Terry St.

Eugene, Oregon USA

A handwritten signature in black ink that reads "Brad West".

Brad West

October 24, 2008

Vice President

Supply Chain Operations

Datalogic Scanning, Inc.



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