



QuickScan™ QBT24XX

General Purpose Handheld
Area Imager Bar Code Reader
with Bluetooth® Wireless Technology



Quick Reference Guide

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See www.patents.datalogic.com for patent list.

This product is covered by one or more of the following patents:

Design Patents: EP002158717, ZL201330271434.1

Utility patents: EP0996284B1, EP0997760B1, EP0999514B1, EP1128315B1, EP1396811B1, EP1413971B1, EP1828957B1, JP4435343B2, US6478224, US6512218, US6513714, US6561427, US6808114, US6997385, US7053954, US7075663, US7234641, US7387246, US7721966, US8245926, US8561906



Table of Contents

Software Product Policy	vi
Customers Under Software Support	vi
Description	1
Setting Up the Reader	2
Locking the Reader to the Base	2
To Lock the Reader in the Base.....	2
Connecting the Base Station	4
Base Station Connection and Routing	4
System and Network Layout	6
Typical Setup with Cradle and Host.....	6
Using the BC20xx™ Radio Base	7
Radio Base LEDs	7
Charging the Batteries	8
Battery Safety	8
Replacing the Battery Pack	11
Using the Quickscan™ QBT24XX	13
Linking the Reader	14
Link Datalogic RF Devices to Base.....	14
Linking to a Bluetooth Adapter in	
Serial Port Profile Mode	14
Linking to a Bluetooth Adapter in HID mode.....	15
Variable PIN Code	16
HID Alt Mode	17
Power Off	17
Country Mode	18
Caps Lock State	22
Selecting the Base Interface Type	23
Interface Selection	23
Configuring the Interface	23
Keyboard Interface	25
Scancode Tables.....	27
Numlock.....	28
Programming	29
Using Programming Bar Codes	29
Configure Other Settings	29
Resetting Standard Product Defaults	30
Reading Parameters	30
Aiming System	30
Good Read Green Spot Duration	31
Scan Modes	32
Pick Mode	34
Multiple Labels in a Volume	34

Technical Specifications	35
LED and Beeper Indications	39
Error Codes	41
Base Station Indications	41
Regulatory Information	42
Statement of Agency Compliance	42
FCC Class B Compliance Statement	42
FCC RF Radiation Exposure Statement.....	43
Canadian Notice	43
Power Supply	44
Imager Labeling	44
WEEE Statement	46
Datalogic ADC Limited Factory Warranty	47
Warranty Coverage	47
Warranty Claims Process.....	47
Warranty Exclusions.....	48
No Assignment	49
Risk of Loss	49
Ergonomic Recommendations	50
Cleaning	51
Services and Support	52
Products	52
Service & Support	52
Contact Us	52
Hex-Numeric Keypad	53
For HID Variable Pin Code only.....	55

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



QuickScan™ QBT24XX

Description

With rich feature sets and extensive options, the QuickScan™ product series from Datalogic represents the premium level of data collection equipment for general purpose applications. The QuickScan QBT24XX 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.

Omni-Directional Operation	To read a symbol simply aim the reader and pull the trigger. The QuickScan QBT24XX 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. When using the product with the cradle at a 45° position, the Green Spot can work as an aiming system to aid in positioning the bar code for quick and intuitive reading.
Decoding	Reliably decodes all standard 1D (linear) and 2D bar codes, including GS1 DataBar™ linear codes, Postal Codes (China Post), Stacked Codes (such as GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, GS1 DataBar, Stacked Omnidirectional). The data stream — acquired from decoding a symbol — is rapidly sent to the host. The reader is immediately available to read another symbol.
Imaging	The QuickScan QBT24XX can also function as a camera by capturing entire images or image portions of labels, signatures, and other items.

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 this page.
2. Charge the Batteries (see page 8).
3. Link to the Base Station (see page 14).
4. Select the Interface Type (see page 23).
5. Configure the Reader starting on page 29 (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



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 on page 5 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.

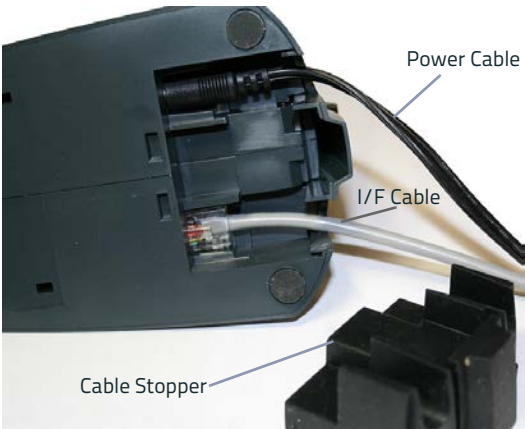


The QBT24XX can also be Powered by the Terminal. When powered by the Terminal, the battery charger is automatically set as Slow charge.

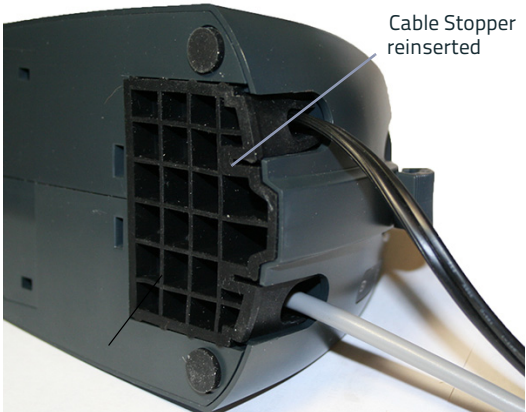
For some specific interfaces or hosts or lengths of cable, the use of an external power supply may be recommended for full recharging capability (see "Technical Specifications" on page 35 for more details).

Base Station Connection and Routing

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

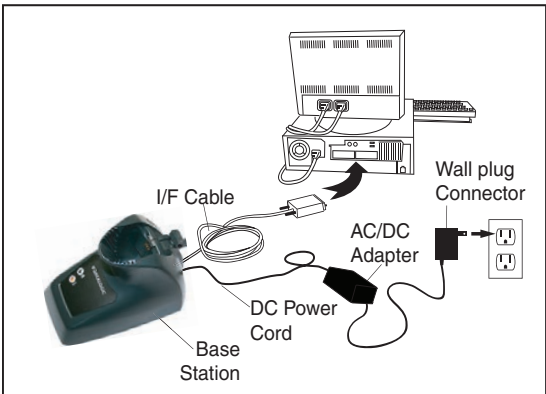


3. After the cables are plugged in, reinsert the Cable Stopper.



4. Connect to an AC Adapter, and plug the AC power cord into the (wall) outlet.

Figure 3. Connecting the Base Station



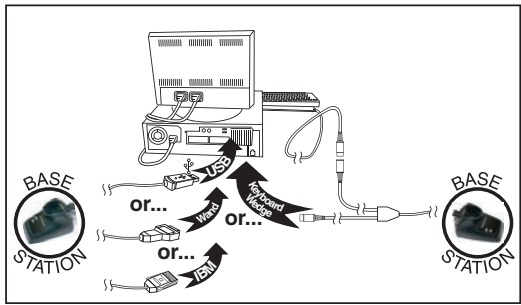
Host Connection — Verify before connection that the reader's cable type is compatible with your host equipment.



The QuickScan QBT24XX can be set up to require a PIN code when connecting to the host. If you are adding new equipment to a system that uses a custom security PIN, please see the PRG for information before proceeding.

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

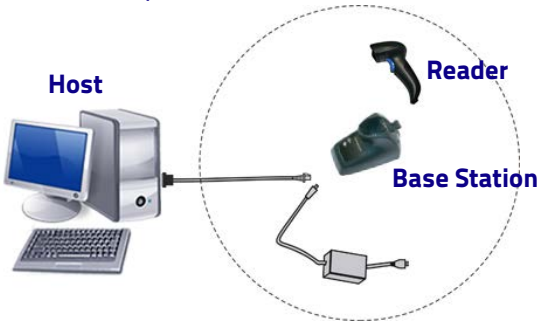


Power Connection — Plug the AC Adapter into an approved AC wall socket with the cable facing downwards (as shown in Figure 3) to prevent undue strain on the socket.

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

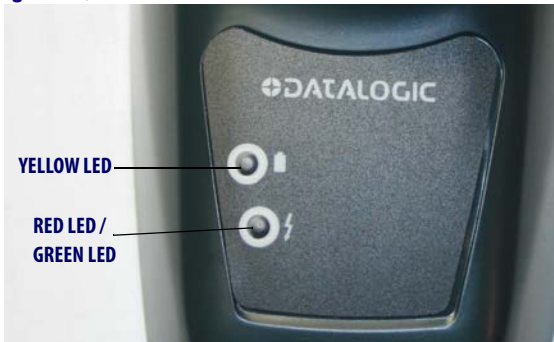
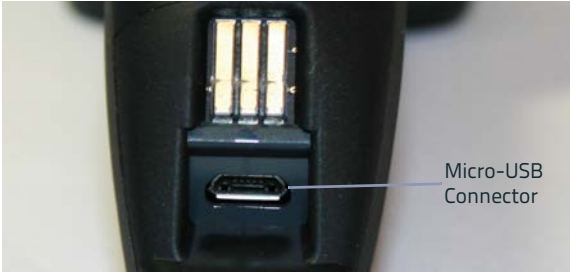


Table 1. Radio Base LEDs

	LED	STATUS
	Power on / Data	Yellow On = Base is powered 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 Batteries

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.



Alternatively, simply insert the QuickScan 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.



Before using the Battery, read “Battery Safety” in the following section. Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance.

Battery Safety

To install, charge and/or perform any other action on the battery, follow the instructions in this manual.



WARNING

Do not discharge the battery using any device except for the scanner. When the battery is used in devices other than the designated product, it may damage the battery or reduce its life expectancy. If the device causes an abnormal current to flow, it may cause the battery to become hot, explode or ignite and cause serious injury.

Lithium-ion battery packs may get hot, explode or ignite and cause serious injury if exposed to abusive conditions. Be sure to follow the safety warnings listed on the following page.

**WARNING**

- Do not place the battery pack in fire or heat.
- Do not connect the positive terminal and negative terminal of the battery pack to each other with any metal object (such as wire).
- Do not carry or store the battery pack together with metal objects.
- Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts or shocks.
- Do not solder directly onto the battery pack.
- Do not expose the battery pack to liquids, or allow the battery to get wet.
- Do not apply voltages to the battery pack contacts.

**WARNING**

In the event the battery pack leaks and the fluid gets into your eye, do not rub the eye. Rinse well with water and immediately seek medical care. If left untreated, the battery fluid could cause damage to the eye.

**CAUTION**

Always charge the battery at 32° – 104° F (0° - 40° C) temperature range.

**CAUTION**

Use only the authorized power supplies, battery pack, chargers, and docks supplied by your Datalogic reseller. The use of any other power supplies can damage the device and void your warranty.

Do not disassemble or modify the battery. The battery contains safety and protection devices, which, if damaged, may cause the battery to generate heat, explode or ignite.



CAUTION

Do not place the battery in or near fire, on stoves or other high temperature locations.

Do not place the battery in direct sunlight, or use or store the battery inside cars in hot weather. Doing so may cause the battery to generate heat, explode or ignite. Using the battery in this manner may also result in a loss of performance and a shortened life expectancy.



CAUTION

Do not place the battery in microwave ovens, high-pressure containers or on induction cookware.

Immediately discontinue use of the battery if, while using, charging or storing the battery, the battery emits an unusual smell, feels hot, changes color or shape, or appears abnormal in any other way.

Do not replace the battery pack when the device is turned on.

Do not remove or damage the battery pack's label.

Do not use the battery pack if it is damaged in any part.

Battery pack usage by children should be supervised.

As with other battery types, Lithium-Ion (LI) batteries will lose capacity over time. Capacity deterioration is noticeable after one year of service whether the battery is in use or not. It is difficult to precisely predict the finite life of a LI battery, but cell manufacturers rate them at 500 charge cycles. In other words, the batteries should be expected to take 500 full discharge/charge cycles before needing replacement. This number is higher if partial discharging/recharging is adhered to rather than full/deep discharging.



CAUTION

Storage of batteries for a long time at fully charged status or at fully discharged status should be avoided.

**CAUTION**

Only in case of long storage, to avoid deep discharge of the battery it is recommended to partially recharge the battery every three months to keep the charge status at a medium level.

As a reference, run a fast recharge for 20 minutes every three months on unused products to avoid any performance deterioration of the cell.

The useful life of LI batteries depends on usage and number of charges, etc., after which they should be removed from service, especially in mission critical applications. Do not continue to use a battery showing excessive loss of capacity, it should be properly recycled / disposed of and replaced.

Collect and recycle waste batteries separately from the device to comply with European Directive 2006/66/EC, 2011/65/EU, 2002/96/EC, 2012/19/EU and subsequent modifications, US and China regulatory and other laws and regulations about the environment.

Replacing the Battery Pack



Before proceeding, read "Battery Safety" on the preceding pages. Datalogic recommends annual replacement of rechargeable battery packs to ensure maximum performance.

1. Using a coin or screwdriver, unscrew the bottom of the battery pack until it 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.



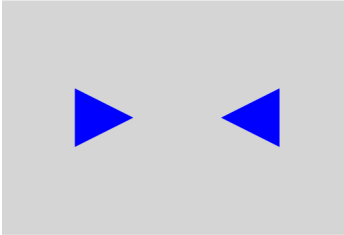
To mount the new battery pack reverse the process:

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 replacing the screw in the bottom of the handle.

Using the Quickscan™ QBT24XX

The Quickscan™ QBT24XX normally functions by capturing and decoding codes. The aiming system is activated on trigger pull and indicates the center of the field of view which should be positioned over the bar code:

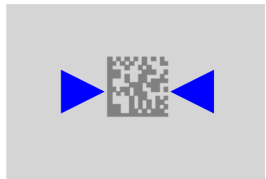
Aiming System



Relative Size and Location of Aiming System Pattern



Linear bar code



2D Matrix symbol

A beam illuminates the label. The projected pattern of the aiming system will be smaller when the reader is closer to the bar code and larger when it is farther from the code. Symbolologies with smaller bars or elements (mil size) should be read closer to the unit. Symbolologies with larger bars or elements (mil size) should be read farther from the unit.

If the aiming system is centered you will get a good read. Successful reading is signaled by an audible tone plus a good-read green spot LED indicator.

Reference the QuickScan Q24XX Product Reference Guide (PRG) on the Datalogic website for more information about this feature and other programmable settings.

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, press the trigger to wake up the handheld and mount it into the base. If the reader was previously linked to another base, you must first press and hold the button on the base (>5 seconds), then scan the **Unlink** bar code before re-linking to the new base.



Unlink

Linking to a Bluetooth Adapter in Serial Port Profile Mode

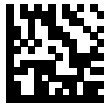
1. Install any drivers provided with the Bluetooth adapter.
2. Scan the **Enable RF Link to Server** label below to make the scanner visible to the host computer.
3. Use the host computer's Bluetooth manager to "Discover new devices" and select "Datalogic Scanner." If you receive an error message, it may be necessary to disable security on the device.
4. Use an RS-232 terminal program to see incoming data on the port designated by the computer's Bluetooth manager.



Enable RF Link to Server

Linking to a Bluetooth Adapter in HID mode

1. Install any drivers provided with the Bluetooth adapter.
2. Scan the **Link to PC in HID** label below..
3. Use the host computer's Bluetooth manager to "Discover new devices" and select "Datalogic Scanner." If you receive an error message, it may be necessary to disable security on the device.
4. Use a text editor to see incoming data on the port designated by the computer's Bluetooth manager..



Link to PC in HID



The QBT24XX can be set up to require a PIN code when connecting. If you want to set up a PIN, or when adding new equipment to a system that uses a custom security PIN, please see the PRG for information.

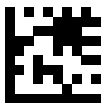
Variable PIN Code

Some Bluetooth drivers on the Host (such as WIDCOMM and BlueSoleil 8) require a Variable PIN Code. When attempting connection, the application presents a window that includes a PIN Code which is to be input using the QBT24XX. Please read the bar code "Variable PIN Code" and restart the sequence from step 2 above.



Variable PIN Code

When you hear the beep and see the Green LED blinking indicating the reader is waiting for an alphanumeric entry, enter the required variable PIN Code by scanning the corresponding bar codes in the '[Hex-Numeric Keypad](#)' section at the back of this manual for alphanumeric entry. Finish by scanning the [Exit HID Variable PIN Code](#) label.



Exit HID Variable PIN Code

HID Country Mode

When the Reader is connected with a Bluetooth Adapter in HID mode, you may want to set the country for which your PC is localized. Go to "Country Mode" on page 18" and read one of the configuration command labels.

HID Caps Lock State

This option specifies the format in which the reader send-character data. See "Caps Lock State" on page 22 for programming labels.

HID Alt Mode

Read the configuration command label below for the HID Alt Mode feature.



ENTER/EXIT PROGRAMMING MODE



◆ HID Alt Mode = OFF



HID Alt Mode = ON

Power Off

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



PowerOff

Country Mode



The following bar codes can be used either while in HID mode (when reader is connected using Bluetooth) or for configuring the base.

HID configuration: Scan any one of the bar codes in the table below to set the country for which your PC is localized.

Base configuration: Only the following 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 : U.S., Belgium, Britain, France, Germany, Italy, Spain, Sweden.

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

COUNTRY MODE (continued)

Country Mode = Croatia*



Country Mode = Czech Republic*



Country Mode = Denmark*



Country Mode = France



Country Mode = French Canadian*



Country Mode = Germany

*Supports only the interfaces listed in the Country Mode feature description
(Base configuration only)

COUNTRY MODE (continued)



Country Mode = Hungary*



Country Mode = Italy



Country Mode = Japanese 106-key*



Country Mode = Lithuanian*



Country Mode = Norway*



Country Mode = Poland*

* Supports only the interfaces listed in the Country Mode feature description (Base configuration only)

COUNTRY MODE (continued)

Country Mode = Portugal*



Country Mode = Romania*



Country Mode = Spain



Country Mode = Sweden



Country Mode = Slovakia*



Country Mode = Switzerland*

*Supports only the interfaces listed in the Country Mode feature description
(Base configuration only)

Caps Lock State



The following bar codes can be used either while in HID mode (when reader is connected using Bluetooth) or for configuring the base.

This option specifies the format in which the reader sends character data.
When using the Base Interface, this applies only to keyboard wedge interfaces. It does not apply when an alternate key encoding keyboard is selected.

CAPS LOCK STATE
 ENTER/EXIT PROGRAMMING MODE
 Caps Lock State = Caps Lock OFF
 Caps Lock State = Caps Lock ON
 Caps Lock State = AUTO Caps Lock Enable

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, etc.) 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 Q24XX PRG.

Configuring the Interface

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



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 a disabled state when powered up. If additional configuration is desired in this state, pull the trigger and hold for 5 seconds to change to a state that allows programming with bar codes.

RS-232
RS-232 standard interface  Select RS232-STD
RS-232 Wincor-Nixdorf  Select RS232-WN
RS-232 for use with OPOS/UPOS/JavaPOS  Select RS-232 OPOS
USB COM to simulate RS-232 standard interface  Select USB-COM-STD^a
a. Download the correct USB COM driver from 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

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



Select KBD-AT

Keyboard Wedge for IBM AT PS2 with standard key encoding
but without external keyboard



Select KBD-AT-NK

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



Select KBD-AT-ALT

Keyboard Wedge for IBM AT PS2 with alternate key encoding
but without external keyboard



Select KBD-AT-ALT-NK

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)
USB Keyboard for Apple computers  Select USB-KBD-APPLE
Keyboard Wedge for DIGITAL Terminals VT2xx, VT3xx, VT4xx  Select KBD-DIG-VT
USB Keyboard with standard key encoding  Select USB Keyboard

Scancode Tables

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

Country Mode

This feature specifies the country/language supported by the keyboard when configured through the base. See "Country Mode" on page 18 for programming bar codes and information.

Caps Lock State

This option specifies the format in which the reader sends character data. See "Caps Lock State" on page 22 for programming bar codes and information.

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.


ENTER/EXIT PROGRAMMING MODE

Numlock = Numlock key unchanged

Numlock = Numlock key toggled

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.

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 30, 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.



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



Standard Product Default Settings

Reading Parameters

Point the reader at the target and pull the trigger to enable the aiming system and the illuminator (red beam) to decode the barcode label. The aiming system will briefly switch off during the acquisition time and if no code is decoded will switch on again before the next acquisition. The illuminator will remain on until the symbol is decoded. As you read code symbols, adjust the distance at which you are holding the reader.

Aiming System

A number of options for customizing control of the Aiming System are available. See the PRG for more information and programming bar codes.

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.

 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 duration¹ 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 duration¹ has elapsed. Reading a label does not disable scanning. Double Read Timeout¹ 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 Timeout¹ prevents undesired multiple reads while in this mode.

Flashing — The reader flashes¹ 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 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 Single Read mode. Double Read Timeout¹ prevents undesired multiple reads while in this mode.

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

SCAN MODE

ENTER/EXIT PROGRAMMING 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

Pick Mode

Pick Mode is a Decoding and Transmission process where bar codes that are not within the configurable distance from the center of the aiming pattern are not acknowledged or transmitted to the host. It is active only while the scanner is in Trigger Single mode. If the scanner switches to a different Read Mode, Pick Mode is automatically disabled.



This feature is not compatible with Multiple Labels Reading in a Volume. See the PRG for more information.

 ENTER/EXIT PROGRAMMING MODE
 ◆ Pick Mode = Disable
 Pick Mode = Enable

Multiple Labels in a Volume

Enables/disables the ability of scanner to decode multiple labels in the same image. Several programming options are available for this feature, see the PRG for more information.

Technical Specifications

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

Physical Characteristics	
Color	White or Black
Dimensions	Height 6.4"/163 mm Length 3.6"/91 mm Width 1.6"/41 mm
Weight (without cable)	Approximately 200 g (reader) 230 g (base charger)
Electrical Characteristics	
Battery Type	Li-Ion battery pack
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 ^a
	Max 22 hours with Base and Host power (in this case no supply adapter is needed) ^a
Operating autonomy (continuous reading)	30,000 reads (typical)
Cradle consumption and DC input supply range	Volt 4.75-14 VDC; Power <8W ^b ; Max 500mA when in host/bus powered mode ^b .
Performance Characteristics	
Light Source	LEDs
Roll (Tilt) Angle ^c	Up to ± 180°

Pitch Angle ^c	± 40°
Skew (Yaw) Angle ^c	± 40°
Field of View	40° H x 26° V

- 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) ^a	
Symbology	
Code 39	5mil: 0.2" - 5.9" (0.5 - 15cm) 10mil: 0" - 8.7" (0 - 22cm) 20mil: up to 16" (40cm)
EAN	7.5mil: 0" - 5.9" (0 - 15cm) 13mil: 0.2" - 13.8" (0.5 - 35cm)
PDF-417	6.6mil: 0.39" - 5.1" (1.0 - 130cm) 10mil: 0" - 8.3" (0 - 21cm) 15mil: 0.2" - 9.5" (0.5 - 24cm)
DataMatrix	10mil: 0.39" - 5.1" (1.0 - 13 cm) 15mil: 0" - 7.1" (0 - 18cm)
QR Code	10mil: 0.2" - 5.1" (0.5 - 13cm) 15mil: 0" - 7.1" (0 - 18cm)
Minimum Element Width	Standard Range: 1D Min Resolution = 4 mil PDF-417 Min Resolution = 5 mil Datamatrix Min Resolution = 7.5 mil
Print Contrast Minimum	25% minimum reflectance

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

Decode Capability

1D Bar Codes

UPC/EAN/JAN (A, E, 13, 8); UPC/EAN/JAN (including P2 /P5); UPC/EAN/JAN (including; ISBN / Bookland & ISSN); UPC/EAN Coupons; Code 39 (including full ASCII); Code 39 Trioptic; Code39 CIP (French Pharmaceutical); LOGMARS (Code 39 w/ standard check digit enabled); 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.

2D / Stacked Codes

The QuickScan QBT24XX scanner is capable of decoding the following symbologies using multiple frames (i.e. Multi-Frame Decoding):

PDF-417; QR Code; Aztec; Datamatrix; Inverse Datamatrix; Datamatrix is configurable for the following parameters; Normal or Inverted; Square or Rectangular Style; Data length (1 - 3600 characters); Maxicode; QR Codes (QR, Micro QR and Multiple QR Codes); Aztec; Postal Codes; Australian Post; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM45CC); Intelligent Mail Bar Code (IMB); Sweden Post; Portugal Post; LaPoste A/R 39; 4-State Canada; PDF-417; MacroPDF; Micro PDF417; GS1 Composites (1 - 12); Codablock F; French CIP13^a; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; GS1 DataBar Expanded Stacked; GS1 Databar Composites; Chinese Sensible Code; Inverted 2D codes.

Note: The reader can apply the Normal/Reverse Decoding Control to the following symbologies: Datamatrix, QR, Micro QR, Aztec and Chinese Sensible Code.

Interfaces Supported^b

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 m (4.9 feet) to concrete
Ambient Light Immunity	Up to 100,000 Lux
Contaminants Spray/rain Dust/ particulates	IEC 529-IP42 (scanner only)
ESD Level	16 KV
Regulatory	
Electrical Safety	UL 60950, CSA C22.2 No. 60950, IEC 60950
EMI/RFI	Europe; Australia; Russia; USA/CANADA; Japan; Mexico; South Korea; Brazil; Argentina; China; Singapore; Taiwan
Radio Features	
Frequency Range	2400 to 2483.5 MHz
Range (in open air)	25 m

- a. It is acceptable to handle this with ULE
- b. See "Interface Selection" on page 23 for a listing of available interface sets by version type.

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 information.)	The reader will beep once at current frequency, volume, mono/ bi-tonal setting and duration upon a successful label scan.
ROM Failure	There is an error in the reader's software/programming	Flashes	Reader sounds one error beep at highest volume.
Limited Scanning Label Read	Indicates that a host connection is not established when the IBM or USB interface is enabled.	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Active Mode	The reader is active and ready to scan.	The LED is lit steadily ^a	N/A
Reader Disabled	The reader has been disabled by the host.	The LED blinks continuously	N/A

Indication	Description	LED	Beeper
Green Spot ^a flashes momentarily	Upon successful read of a label, the software shall turn the green spot on for the time specified by the configured value.	N/A	N/A

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

Regulatory Information

All versions of the reader 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.

Statement of Agency Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Class B Compliance Statement

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

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 instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this 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:

- Reorient 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 or television technician for help.

FCC RF Radiation Exposure Statement



Exposure to Radio-Frequency Radiation

To comply with FCC RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian Notice

This equipment does not exceed the Class B limits for radio noise emissions as described in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.



Do not attempt to open or otherwise service any components in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate safety regulations.

Cofetel Mexico Update

**Este Producto es usable en Mexico
Certificado Nr. RCPDADL09-1251 (COFETEL)**

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Power Supply

This device is intended to be connected to a UL Listed/CSA Certified computer which supplies power directly to the reader or else be supplied by UL Listed/CSA Certified Power Unit marked 'Class 2' or LPS power source rated 5-14V minimum 900mA, which supplies power directly to the Base/Charger via the power connector of the Base itself.

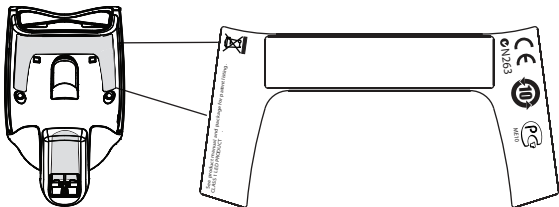
 Atención	Características de la fuente de alimentación eléctrica.
Entrada:	100 - 240 Vca min .35A 50-60 Hz
Salida:	+5VDC, máx 2.5A (-)Negativo al centro
Entrada:	100 - 240 Vca min 0.6A 50-60 Hz
Salida:	+12VDC, máx 1.5A (-)Negativo al centro
Utilice en su red solo fuentes certificadas en Argentina. El uso de fuentes de alimentación no compatibles puede resultar en riesgo de incendio o de choque eléctrico para el usuario.	

Adaptador para Fuente de Poder Externa

Imager Labeling

Sample labels are shown for placement purposes only. Please view the labels on your product for actual details, as they may vary from those depicted.

Scanner Regulatory Label



China RoHS Table of Restricted Elements

QuickScan® QBT24XX		China RoHS					
PART	部件名称	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
		有毒有害物质或元素					
		铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
Cable	电缆	X	O	O	O	O	O
Printed Circuit Board Assy	电路板组	X	O	O	O	O	O
Assembly, Module	光学组件	X	O	O	O	O	O
Power Supply	电源	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）

WEEE Statement



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.

Italian

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

French

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

German

Informationen zur Entsorgung von Elektro- und Elektronik-Altgeräten (WEEE) erhalten Sie auf der Webseite 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.

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.

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。

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 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.

Ergonomic Recommendations



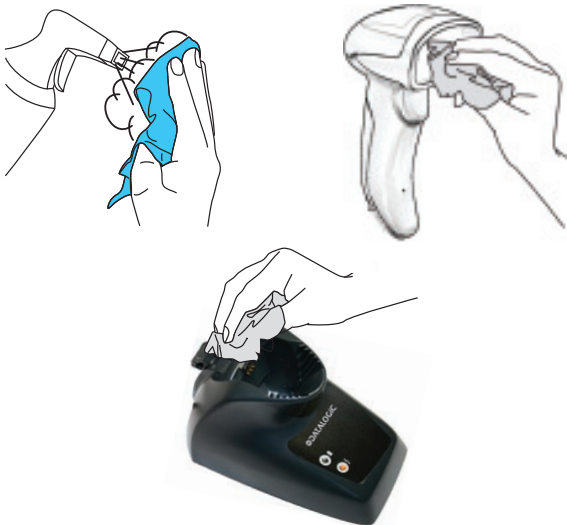
CAUTION

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

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Cleaning

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



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.

Services and Support

Datalogic provides several services as well as technical support through its website. Log on to www.datalogic.com and click on the links indicated for further information.

Products

Search through the links to arrive at your product page where you can download specific **Manuals** and **Software & Utilities**, including:

- **Datalogic Aladdin™**, a multi-platform utility program that allows device configuration using a PC. It provides RS-232 interface configuration as well as bar code printing.

Service & Support

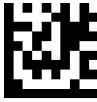
- **Technical Support** – Product documentation and programming guides and Technical Support Departments over the world
- **Service Programs** – Warranty Extensions and Maintenance Agreements
- **Repair Services** – Flat Rate Repairs and Return Material Authorization (RMA) Repairs.
- **Downloads** – Manuals & Documentation, Data Sheets, Product Catalogues, etc.

Contact Us

- Information Request Form and Sales & Service Network

Hex-Numeric Keypad

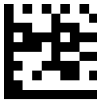
Use the bar codes that follow to enter numbers as you would select digits/characters from a keypad.



0



1



2



3



4



5

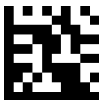
Hex-Numeric Keypad (continued)



6



7



8



9



A



B

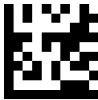
Hex-Numeric Keypad (continued)



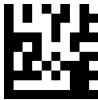
C



D



E



F

For HID Variable Pin Code only

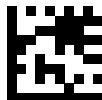
If you make a mistake, scan the **CANCEL** barcode below to abort and not save the entry string. You can then restart.



Cancel an incomplete HID Variable PIN Code

Finish by scanning the **Exit HID Variable PIN Code** label.

Exit HID Variable PIN Code



NOTES

NOTES

NOTES

DECLARATION OF CONFORMITY



**Datalogic ADC Srl, Via S. Vitalino, 13
Lippo di Calderara di Reno (BO) 40012 Italy**

EC-113
Rev.: 0
Pag.: 1 di 1

La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva di Datalogic ADC Srl per:

This Declaration of Conformity is issued under the sole responsibility of Datalogic ADC Srl for:

Cette déclaration de conformité est établie sous la seule responsabilité de Datalogic Srl pour:

Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Datalogic ADC Srl erteilt für:

Esta declaración de conformidad se expide bajo la exclusiva responsabilidad de Datalogic ADC Srl para:

**QuickScan QBT2400 ; Cordless Barcode Reader
BC2030-BT ; Cordless Base station /Charger**

*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:

**1999/5/EC - R&TTE Directive
2011/65/EU - RoHS Directive**

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:

**ETSI EN 301 489-17 v2.2.1,
SEPTEMBER 2012 :**

**ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM
MATTERS (ERM); ELECTROMAGNETIC COMPATIBILITY (EMC)
STANDARD FOR RADIO EQUIPMENT; PART 17: SPECIFIC CON-
DITIONS FOR BROADBAND DATA TRANSMISSION SYSTEMS**

**ETSI EN 300 328 v1.8.2,
JUNE 2012 :**

**ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM
MATTERS (ERM); WIDEBAND TRANSMISSION SYSTEMS; DATA
TRANSMISSION EQUIPMENT OPERATING IN THE 2,4 GHZ ISM
BAND AND USING WIDE BAND MODULATION TECHNIQUES;
HARMONIZED EN COVERING ESSENTIAL REQUIREMENTS
UNDER ARTICLE 3.2 OF THE R&TTE DIRECTIVE**

**EN 60950-1, DECEMBER 2006 +
AMENDMENT A11:2009 +
AMENDMENT A1:2010 +
AMENDMENT A12:2011 +
AMENDMENT A2:2013**

**INFORMATION TECHNOLOGY EQUIPMENT - SAFETY - PART 1 :
GENERAL REQUIREMENTS**

EN 50581, SEPTEMBER 2012:

**TECHNICAL DOCUMENTATION FOR THE ASSESSMENT OF
ELECTRICAL AND ELECTRONIC PRODUCTS WITH RESPECT TO
THE RESTRICTION OF HAZARDOUS SUBSTANCES**

Lippo di Calderara,
July 28th , 2014

Ruggero Cacioppo
Quality & Reliability Manager - Europe



www.datalogic.com

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July 2014