

Quickscan™ I

QD2200

QUICK REFERENCE GUIDE



General Purpose Coded
Handheld Linear Bar Code Reader

 **DATALOGIC**

Datalogic S.r.l.

Via S. Vitalino, 13
40012 Calderara di Reno (BO)
Italy
Tel. +39 051 3147011
Fax +39 051 3147205

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This Agreement is governed by the laws of the State of Oregon. This Agreement and the rights of the parties hereunder shall be governed by and construed in accordance with the laws of the State of Oregon U.S.A, without regard to the rules governing conflicts of law. The state or federal courts of the State of Oregon located in either Multnomah or Lane counties shall have exclusive jurisdiction over all matters regarding this Agreement, except that Datalogic shall have the right, at its absolute discretion, to initiate proceedings in the courts of any other state, country, or territory in which End User resides, or in which any of End User's assets are located. In the event an action is brought to enforce the terms and conditions of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, both at trial and on appeal.

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

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The number of arbitrators will be three, with each side to the dispute being entitled to appoint one arbitrator. The two arbitrators appointed by the parties will appoint a third arbitrator who will act as chairman of the proceedings. Vacancies in the post of chairman will be filled by the president of the SIAC. Other vacancies will be filled by the respective nominating party. Proceedings will continue from the stage they were at when the vacancy occurred. If one of the parties refuses or otherwise fails to appoint an arbitrator within 30 days of the date the other party appoints its, the first appointed arbitrator will be the sole arbitrator, provided that the arbitrator was validly and properly appointed. All proceedings will be conducted, including all documents presented in such proceedings, in the English language. The English language version of these terms and conditions prevails over any other language version.

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- END -

Software Product Policy

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

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

NOTES

QUICKSCAN™ QD2200

DESCRIPTION

Today there is an increased trend towards 2D bar codes, however, linear bar codes are still widespread in Retail POS checkout applications. Long bar codes are also commonly used in a variety of applications including utility bills, document processing and packaging. These long bar codes are a challenge for full area imagers to read due to their narrow field-of-view and shorter depth-of-field. The QuickScan™ QD2200 imager is the 1D entry-level corded imager from Datalogic with a superior scanning performance in its category. It reliably reads any type of 1D bar code from up close to a distance with ease in capturing long bar codes.

The Most Prompt Response at the Pos Check-out

Unlike other devices on the market, this imager provides full control to the operator, from the linear aiming to the most prompt visual and audible good-read feedback. It seamlessly reads through plexiglass barriers and can scan electronic coupons from smartphone screens at an incredibly affordable price.

Comfort and Reliability

Lightweight and easy to handle, the QuickScan QD2200 is very responsive at the pull of the trigger, providing a superior robustness for this class of products where the device is mostly stressed, because of the accurate design and quality of parts. Offering simple configuration and ease of use, this robust entry-level scanner delivers continuous operation capabilities with no failures. Finally, the QuickScan QD2200 imager will prove to be the best long term choice, by cutting down-time, no read/misread management time, and service costs.

Hands Free Stand/holder

An accessory is available which holds the reader at a convenient angle, allowing hands free scanning of items. It can also be used as a holder.



SETTING UP THE READER

Follow the steps below to connect and get your reader up and communicating with its host.

1. Connect the Cable to the reader and the Host as shown below.
2. Configure the Interface (see page 7).
3. Program the Reader starting on page 13) (optional, as needed).

Connecting to the Host Interface



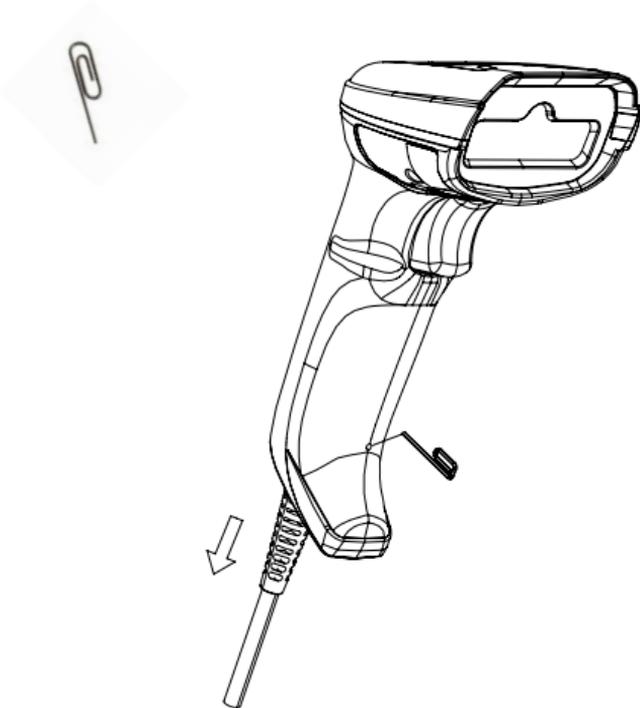
CONNECTING AND DISCONNECTING THE CABLE

When inserting the cable, make sure the connector clip is on the same side as the reader release hole. Insert the cable, it should click when it is fully inserted.

To remove the interface cable from the reader, first locate the hole on the front of the handle. Next, take a paper clip and modify it as shown in the figure below. Insert the end of the paper clip into the hole and press it to push on the clip that holds the connector. As you apply pressure, pull out the cable.



NOTE: We recommend the use of a perfectly straight new staple to make the operation easier (see the pictures below).



USING THE QUICKSCAN™ I QD2200

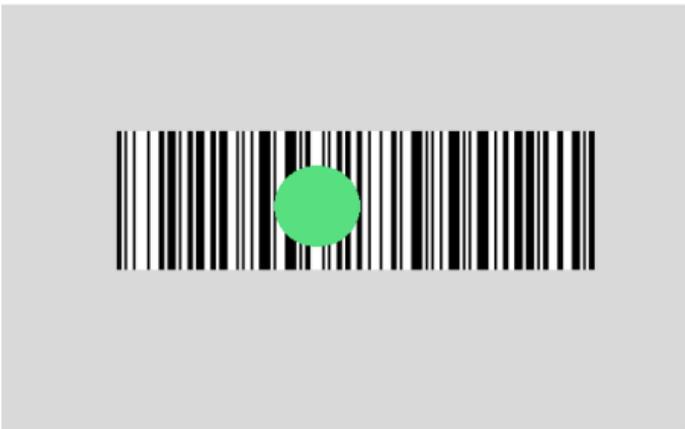
The Quickscan™ I QD2200 normally functions by capturing and decoding codes.

Bar Code Reading

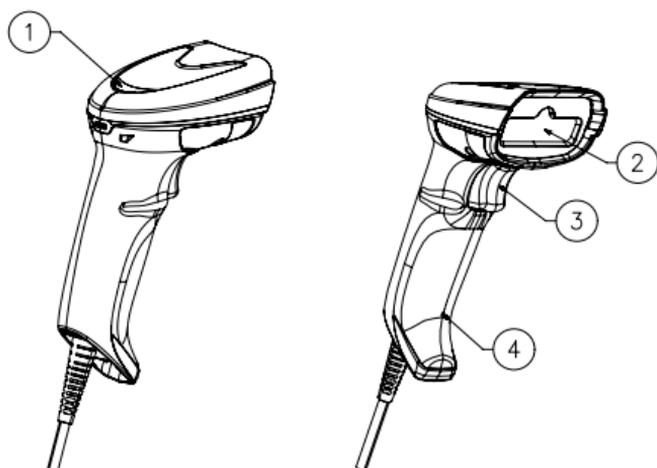
Point the reader at the target and pull the trigger to enable the illuminator (red beam) to decode the bar code label. The illuminator will remain on until the symbol is decoded. When scanning a bar code label, you can adjust the distance or angle to the label to help facilitate reading. Successful reading is signaled by an audible tone plus a good-read green spot LED indicator.

Refer to the Quickscan I QD2200 Product Reference Guide (PRG) for more information about this feature and other programmable settings.

Relative Size and Location of Green Spot



PARTS OF THE READER



- 1. LED
- 3. Trigger

- 2. Scan Window
- 4. Cable Release Hole

SELECTING THE INTERFACE TYPE

Upon completing the physical connection between the reader and its host, proceed directly to Interface Selection below for information and programming for the interface type supported by the reader and scan the appropriate bar code to select your system's correct interface type, according to your application.

For interfaces other than those listed in this manual, see the Quickscan™ I QD2200 Product Reference Guide (PRG), available online at www.datalogic.com.

Interface Selection

The reader will support all the following host interfaces:

- USB HID POS
- USB Toshiba TEC
- USB (Keyboard, COM, OEM)
- USB Composite (Keyboard + COM)
- USB for Magellan Scanners

Information and programming options for each interface type are provided in this section. For defaults and additional information associated with each interface, proceed to the corresponding chapter in the Quickscan™ I QD2200 PRG.

CONFIGURING THE INTERFACE

Scan the appropriate programming bar code to select the interface type for your system.



NOTE: Unlike some other programming features and options, interface selections require that you scan only one programming bar code label. DO NOT scan an ENTER/EXIT bar code prior to scanning an interface selection bar code.

Some interfaces require the scanner to start in the disabled state when powered up. If additional scanner configuration is desired while in this state, pull the trigger and hold for 5 seconds. The scanner will change to a state that allows programming with bar codes.

USB Interface

The reader 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 reader auto-detects the USB cable and defaults to the USB keyboard interface.

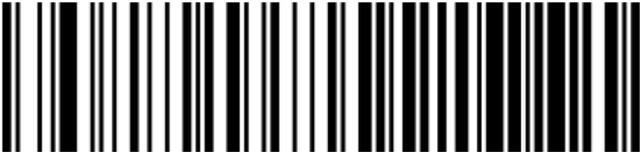
USB
 Select USB Keyboard (with standard key encoding)
 Select USB-COM-STD (simulates RS-232 standard interface)
 Select USB Alternate Keyboard (with alternate key encoding)
 Select USB-OEM

Country Mode

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

- USB Keyboard (without alternate key encoding)

All other interfaces support ONLY the following Country Modes: U.S., Belgium, Britain, France, Germany, Italy, Spain, Sweden.

COUNTRY MODE
 ENTER/EXIT PROGRAMMING MODE
 Country Mode = U.S.
 Country Mode = Belgium
 Country Mode = United Kingdom
 Country Mode = Croatia*
 Country Mode = Czech Republic*

COUNTRY MODE (CONTINUED)



Country Mode = Denmark*



Country Mode = France



Country Mode = French Canadian



Country Mode = Germany



Country Mode = Hungary*



Country Mode = Italy



Country Mode = Japanese 106-key*

COUNTRY MODE (CONTINUED)

Country Mode = Lithuanian



Country Mode = Norway*



Country Mode = Poland*



Country Mode = Portugal*



Country Mode = Romania*



Country Mode = Slovakia



Country Mode = Spain

COUNTRY MODE (CONTINUED)



Country Mode = Sweden



Country Mode = Switzerland*

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

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 Quicksan™ I QD2200 PRG. Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of the PRG.

Using Programming Bar Codes

This manual contains bar codes which allow you to reconfigure your reader. Some programming bar code labels, like the "Reset Default Settings" on [page 13](#), 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 Product Defaults

If you aren't sure what programming options are in your reader, or you've changed some options and want your custom factory settings restored, scan the bar code below to reset the reader to its initial configuration. Reference the PRG for other options, and a listing of standard factory settings.



NOTE: Factory defaults are based on the interface type. Be sure your reader is configured for the correct interface before scanning this label. See "Selecting the Interface Type" on [page 7](#) for more information.



Reset Default Settings

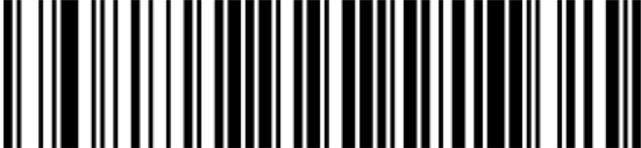
READING PARAMETERS

Move the reader toward the target and center the illumination system to capture and decode the image. See "Using the Quickscan™ I QD2200" on page 5 for more information.

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.

Good Read Green Spot Duration

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

GOOD READ GREEN SPOT DURATION	
	ENTER/EXIT PROGRAMMING MODE
	Disable
	★ Short (300 ms)
	Medium (500 ms)

GREEN SPOT DURATION (CONTINUED)



★ = default value

OPERATING MODES

Scan Mode

The reader can be set to operate in one of several scanning modes. See the PRG for more information and settings for any of the following options:

Trigger Single (Default) This mode is associated with the typical handheld reader operation. When the trigger is pulled, illumination is turned on and the scanner attempts to read a label.

Scanning is activated until one of the following occurs:

- the programmable “maximum scan on time”¹ has elapsed
- a label has been read
- the trigger is released

Trigger Pulse Multiple - Scanning begins when the trigger is pulled and continues after the trigger is released, until the trigger is pulled again or until the programmable “maximum scan on time”¹ has elapsed. Reading a label does not disable scanning. Double Read Timeout¹ prevents undesired multiple reads while in this mode.

Trigger Hold Multiple - When the trigger is pulled, scanning starts and the product scans until the trigger is released or “maximum scan on time”¹ has elapsed. Reading a label does not disable scanning. Double Read Timeout¹ prevents undesired multiple reads while in this mode.

Always On - The illuminator is always ON and the reader is always ready for code reading. Double Read Timeout¹ prevents undesired multiple reads.

1. See the Product Reference Guide (PRG) for these and other programmable features.

Flashing - The reader illuminator flashes on and off regardless of the trigger status. Code reading takes place only during the Flash On Time¹. Double Read Timeout¹ prevents undesired multiple reads.

Stand Mode - No trigger pull is required to read a bar code. Scanning is turned on automatically when an item is placed in the reader's field of view.

Trigger Object Sense - It is similar to Stand Mode. A trigger pull is required to activate the decoder.

SCAN MODE
 ENTER/EXIT PROGRAMMING MODE
 ★ Trigger Single
 Trigger Pulse Multiple
 Trigger Hold Multiple
 Flashing

1. Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.



Always ON



Stand Mode



Trigger Object Sense

★ = default value

TECHNICAL SPECIFICATIONS

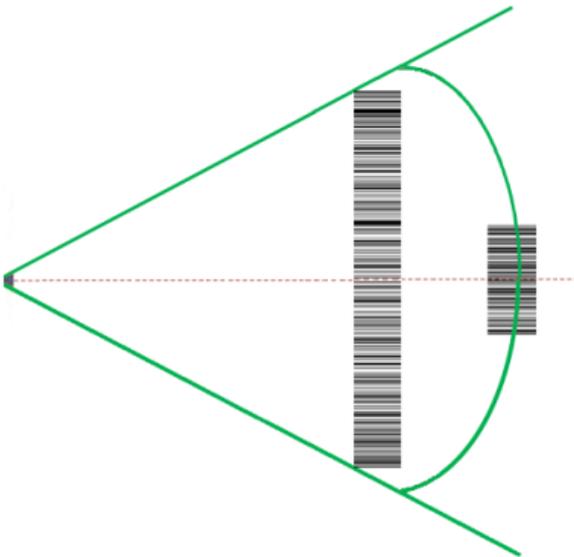
The following table contains Physical and Performance Characteristics, User Environment and Regulatory information.

PHYSICAL CHARACTERISTICS	
Color	Black
Dimensions	Height 15.6 cm (6.1") Length 10.7 cm (4.2") Width 6.7 cm (2.6")
Weight (without cable)	QD2200 approx. 123 g (4.34 oz.)
ELECTRICAL CHARACTERISTICS	
Power Supply	QD4220: 5VDC \pm 5%
Consumption	Operating (Typical): <500mA @ 5V Standby/Idle (Typical): <50mA @5V
Max. Scan Rate	400 reads/sec
Reading Indicators	Top illumination, Good Read Spot, Beep
ENVIRONMENTAL CHARACTERISTICS	
Operating Temperature	0 °C to + 50 °C (+32° F to +122 °F)
Storage Temperature	-40 °C to + 70 °C (-40 ° F to +158 °F)
Humidity	95% non condensing
Drop Resistance	IEC 68-2-32 Tested 1.5 m (5 ft)
ESD Protection	16 KV
Protection Class	IP42
Ambient Light	120000 lux
Cable Length	Refer to www.datalogic.com
OPTICAL CHARACTERISTICS	
Tilt Tolerance ^a	\pm 45°
Pitch Tolerance ^a	\pm 65°
Skew Tolerance ^a	\pm 65°
Field of View ^a	HORIZONTAL 56° +/- 2°
PCS (Datalogic Test Chart)	minimum 15%

a. Based on ISO 15423 specifications.

READING PARAMETERS	
DOF ^a	Code 39 4mils: 25 to 220mm / 0.98 to 8.66 inch ^b
	Code 39 5mils: 10 to 300mm / 0.39 to 11.8 inch ^b
	Code 39 7.5mils: 10 to 450mm / 0.39 to 17.7 inch ^b
	Code 39 10mils: 10 to 600mm / 0.39 to 23.6 inch ^b
	Code 39 20mils: 30 ^c to 1030mm / 1.18 to 40.55 inch ^b
	EAN13/UPC A 13 mils: 10 to 680mm / 0.39 to 26.77 inch ^b
Resolution (Maximum)	0.0077mm / 3mils

- a. The depth of field is defined by an arc and not a plane. Shorter bar codes of a given resolution can be read at a further distance than longer bar codes (as explained in the following image).
- b. All labels grade A, typical environmental light, 20°C, label inclination 10°.



- c. Depends on size label.

DECODE CAPABILITY
<p>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 Limited; GS1 DataBar Expanded; GS1 DataBar Truncated; DATABAR Expanded Coupon.</p>

LED AND BEEPER INDICATIONS

The reader's beeper sounds and its illumination flashes or changes color 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. Refer to the PRG for a more detailed list.

INDICATION	LED	BEEPER
Power-up	Upper 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.	Reader beeps four times at highest frequency and volume upon power-up.
Good Read	Upper green LED comes on for programmed time (default). LED behavior for this indication is configurable using Aladdin utility.	One beep at current frequency, volume, mono/bi-tonal setting upon a successful label scan. It is also possible to upload custom jingles with Aladdin.
ROM Failure	200ms on / 200ms off	Reader sounds one error beep at highest volume for 200 mS.
Limited Scanning Label Read	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Disabled	The LED blinks continuously 100mS on / 900 mS off	N/A

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
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 bar code is not decoded.	Reader not programmed for correct bar code type.	Ensure reader is programmed to read the type of bar code scanned. Refer to the PRG for more information.
	Bar code label is unreadable.	Check the label to ensure it is not defaced. Try to scan another bar code type.
	Distance between reader and bar code is incorrect.	Move reader closer to or further from the bar code.
Bar code is decoded but not transmitted to the host.	Reader not programmed for the correct host type.	Scan the appropriate host type bar code. Refer to the PRG for more information.

WARRANTY

Datalogic warrants that the Products shall be free from defects in materials and workmanship under normal and proper use during the Warranty Period. 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. The Warranty Period shall be **five years** from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic.

Datalogic will not be liable under the warranty if the Product has been exposed or subjected to any: (1) maintenance, repair, installation, handling, packaging, transportation, storage, operation or use that is improper or otherwise not in compliance with Datalogic's instruction; (2) Product alteration, modification or repair by anyone other than Datalogic or those specifically authorized by Datalogic; (3) accident, contamination, foreign object damage, abuse, neglect or negligence after shipment to Buyer; (4) damage caused by failure of a Datalogic-supplied product not under warranty or by any hardware or software not supplied by Datalogic; (5) any device on which the warranty void seal has been altered, tampered with, or is missing; (6) 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; (7) use of counterfeit or replacement parts that are neither manufactured nor approved by Datalogic for use in Datalogic-manufactured Products; (8) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.; (9) loss of data; (10) any consumable or equivalent (e.g. cables, power supply, batteries, etc.); or (11) any device on which the serial number is missing or not recognizable.

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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.

TECHNICAL SUPPORT

Support Through the Website

Datalogic provides several services as well as technical support through its website. Log on to (www.datalogic.com).

For quick access, from the home page click on the search icon , and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

Hover over the Support & Service menu for access to Services and Technical Support.

Reseller Technical Support

An excellent source for technical assistance and information is an authorized Datalogic reseller. A reseller is acquainted with specific types of businesses, application

software, and computer systems and can provide individualized assistance.

CLEANING PROCEDURE

Exterior surfaces and scan windows exposed to spills, smudges or debris accumulation require periodic cleaning to ensure best performance during scanning operations.

Follow the procedures described in this instruction sheet to keep your Quickscan device in good operating condition.



WARNING: Be sure to turn off power and unplug the device from electrical outlet before cleaning.



CAUTION: DO NOT use abrasive pads or cleaning agents.

Common Cleaning Solutions

The cleaners and disinfectants listed below are recommended for use on Datalogic's Quickscan 2200 Enclosures:

CLEANERS	DISINFECTANT
Formula 409® Glass and Surface Cleaner	Clorox® Bleach (diluted 10:1)
70% Isopropyl Alcohol	Hydrogen Peroxide 3%
Windex® Multi-Surface	
100% Gentle dish soap and water	



NOTE: Disinfectants may be harsh on metal. They are recommended for use only on enclosures.



CAUTION: DO NOT spray or pour cleaner directly onto the unit.
DO NOT use solutions in their concentrated form.
DO NOT use aerosols, solvents or abrasives.
DO NOT use paper towels or rough cloths to clean windows.

Cleaning enclosure and window surfaces

1. Moisten a soft cloth with a recommended cleaning solution. Be sure to apply the solution to your cloth first. Wring excessive liquid from the cloth.
2. Use the cloth to wipe down the surface of the unit. Use cotton swabs, lightly moistened, to reach in corners and crevices.
3. Use another clean dry cloth to remove any residue of the cleaning agent and ensure the unit is dry.



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Datalogic S.r.l.

Via S. Vitalino, 13 | 40012 Calderara di Reno | Bologna - Italy
Tel. +39 051 3147011 | Fax +39 051 3147205



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Rev A

January 2023