

 **DATALOGIC**

Touch TD1100

General Purpose Corded Handheld Contact Imager Bar Code Reader



Quick Reference Guide

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

**See the Regulatory Addendum included
with your product for additional regulatory,
safety and legal information.**



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All rights, duties, and obligations are subject to the courts of the country in which End User obtained the license. For licenses granted by Licensee who operates in the countries specified below, the following terms applies.

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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.

For Europe, Middle East and Africa:

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

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Any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration administered by the Singapore International Arbitration Centre ("SIAC") in accordance with the Arbitration Rules of the Singapore International Arbitration Centre ("SIAC Rules") for the time being in force, which rules are deemed to be incorporated by reference in this clause. The seat of the arbitration shall be Singapore.

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

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- END -

Software Product Policy

Datalogic reserves the right to ship its products with the latest version of software/firmware available. This provides our customers with the very latest in Datalogic software technology.

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

NOTES



Touch TD1100

Description

The Touch™ TD1100 series of linear imaging contact readers represent the Datalogic solution for customers who require a cost-effective solution for close contact bar code reading without sacrificing quality and performance.

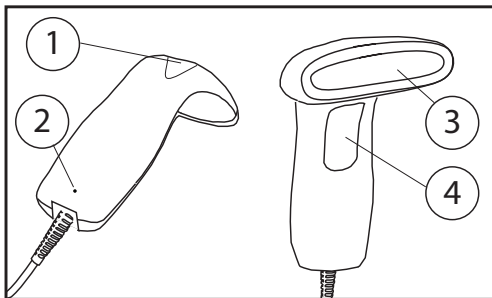
Designed for low throughput applications within multiple markets, the Touch TD1100 readers provide the guarantee of contact reading with an excellent reading performance on virtually all linear bar codes, including damaged or poorly printed codes.

Small, lightweight and low on energy consumption, the Touch TD1100 readers can still provide robustness and a 1.5 m / 5.0 ft drop resistance, which is typically included in a higher range of products.

The Touch readers are available with the option of two different sizes of reading windows: 6.5 cm / 2.6 in (Touch 65) or 9.0 cm / 3.5 in (Touch 90), which benefits the user when reading either standard or wide bar codes.

The Touch 65/90 Pro readers provide a complete all-in-one multi-interface solution, including RS-232, USB, Keyboard Wedge, and Wand Emulation; the Touch Lite 65/90 readers provide USB-only or RS-232 / Keyboard Wedge interfaces.

Parts of the Reader

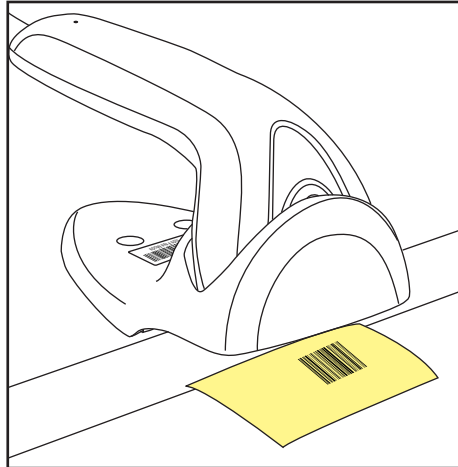


- 1. Indicator Window
- 2. Cable Release Hole
- 3. Scan Window
- 4. Trigger

Holder/Hands-Free Stand

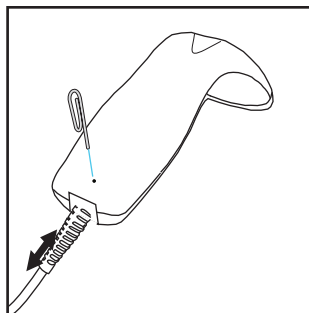
The TD1100 Holder can be used as a hands-free stand. Refer to "Scanning Modes" on page 9 for information about programming the reader for use with the stand.

Figure 1. Hands-Free Stand



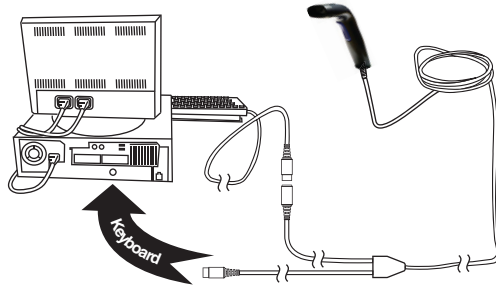
Setup

Connect/Disconnect Cable

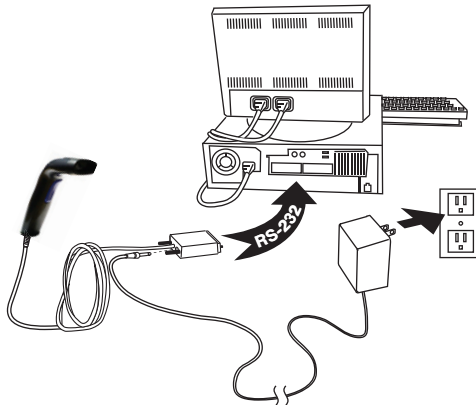


Connect Host Interface

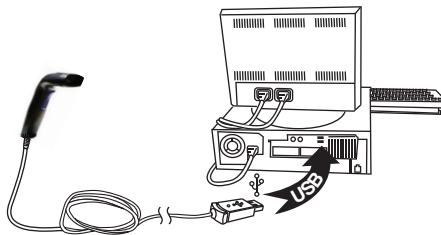
Keyboard Wedge Interface



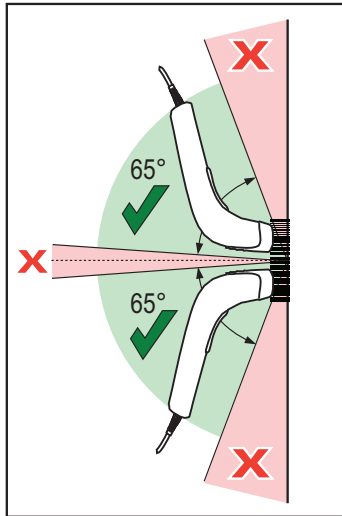
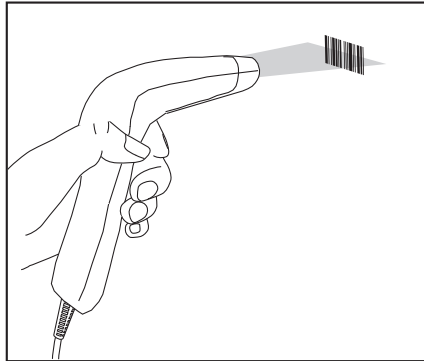
RS-232 Interface



USB Interface



Touch and Scan



Programming Bar Codes

For your convenience, this guide includes the programming bar codes required to configure the reader 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 reader 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 reader, or you've changed some options and want the factory settings restored, scan the Factory Default Settings bar code below. This will copy the factory configuration for the currently active interface to the current configuration.



Factory Default Settings

Host Interfaces



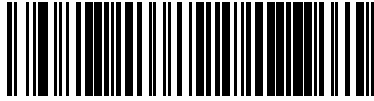
Cables may vary depending on system configuration.

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

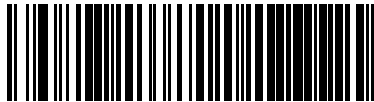
NOTE **a state that allows programming with bar codes.**

RS-232 Interface

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



Select RS-232 Standard



Select RS-232 Wincor Nixdorf



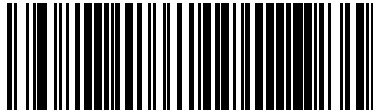
Select RS-232 OPOS (for use with OPOS/UPOS/JavaPOS)

USB Interface

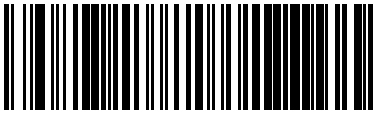
The reader attaches directly to a USB host, or a powered USB hub, and is powered by it. No additional power supply is required. When using a USB interface, the reader auto-detects the USB and defaults to the USB Keyboard interface.



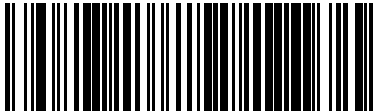
Select USB-COM-STD¹ (simulates RS-232 standard interface)



Select USB Keyboard (with standard key encoding)



Select USB Alternate Keyboard (with alternate key encoding)

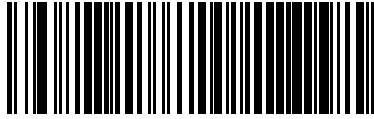


Select USB OEM

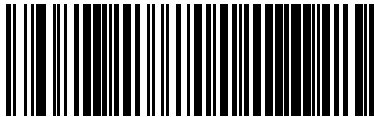
1. Download the appropriate USB Com driver from www.datalogic.com.

Keyboard Wedge Interface

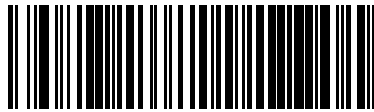
To use a Keyboard Wedge interface, scan the bar code for the desired keyboard type.



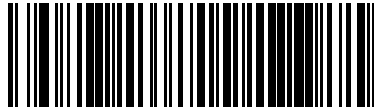
Select KBD-AT
(AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95
w/Standard Key Encoding)



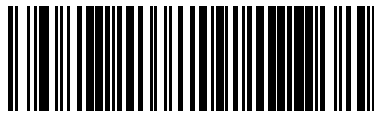
Select KBD-AT-NK
(IBM AT PS2 with standard key encoding but without external kbd.)



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



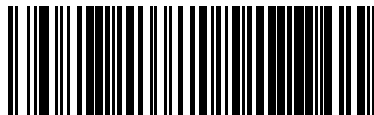
Select KBD-AT-ALT-NK (for IBM AT PS2 with alternate key
encoding but without external keyboard)



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

Wand Emulation Interface

To use a Wand Emulation interface, scan the bar code below.



Select WAND

Scanning Modes



NOTE

If the interface type is changed, scanner configuration may automatically reset to a different Scanning Mode.

The reader 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.

Always On — No trigger pull is required to read a bar code. Scanning is continually on. Double Read Timeout² prevents undesired multiple reads while in this mode.

Hands-Free 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 in Trigger Single mode. Double Read Timeout prevents undesired multiple reads while in this mode.

1. See the Product Reference Guide (PRG) for additional programmable features, such as 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.

Scanning Modes (continued)



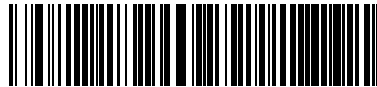
Scan Mode = Trigger Single



Scan Mode = Trigger Hold Multiple



Scan Mode = Trigger Pulse Multiple



Scan Mode = Flashing



Scan Mode = Always On



Scan Mode = Hands-Free Mode

Troubleshooting

Problem	Possible Cause	Possible Solutions
Nothing happens when the trigger is pulled.	No power to the reader.	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 does not decode.	Reader not programmed for correct bar code type.	Ensure reader is programmed to read the type of bar code scanned. Refer to the Product Reference Guide (PRG) for more information.
	Bar code label is unreadable.	Check the label to ensure it is not defaced. Try scanning another bar code type.
	Distance between reader and bar code is incorrect.	Move reader closer to or further from the bar code.
	Bar code label is too wide	Move scanner away from bar code label.
Bar code reading ability has degraded.	Scan Window has become dirty.	Clean window using a soft, lint-free cloth dampened with water.
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 Product Reference Guide (PRG) for more information.



NOTE

For detailed troubleshooting, refer to the Product Reference Guide.

Technical Features

Item	Description
Physical Characteristics	
Color	Black; Other colors and custom logo options are available for minimum quantity purchase.
Dimensions	Touch 65: 16.0 x 8.4 x 5.8 cm / 6.3 x 3.3 x 2.3 in Touch 90: 17.0 x 10.4 x 6.7 cm / 6.7 x 4.1 x 2.7 in
Weight	Touch 65: 130.0 g / 4.6 oz Touch 90: 153.0 g / 5.4 oz
Electrical Characteristics	
Current	Operating (Typical): < 100 mA @ 5 VDC Standby/Idle (Typical): 20 mA @ 5 VDC Max 180mA @ 5VDC
Input Voltage	5 VDC +/- 0.5 V
Reading Performance	
Imager Sensor	Linear Imaging Sensor: Illumination: Red LED 640 nm wavelength
Print Contrast Ratio (Minimum)	25%
Read Angle	Pitch: +/- 65°; Roll (Tilt): +/- 45°; Skew (Yaw): +/- 70°
Reading Indicators	Beeper (Adjustable Tone); Good Read LED
Resolution (1D Codes, Maximum)	Touch 65 Minimum Resolution = 4 mil (0.102 mm) Touch 90 Min Resolution = 5 mil (0.127 mm)

Reading Ranges		
Typical Depth Of Field	Minimum distance determined by symbol length and scan angle.	
	Printing resolution, contrast, and ambient light dependent.	
	Touch 65	Touch 90
Code 39 5 mils:	0 to 5.0 cm (1.97 inches)	0-2.5 cm (0.98 inches)
Code 39 7.5 mils:	0 to 10.0 cm (3.94 inches)	0-8.5 cm (3.35 inches)
Code 39 10 mils:	0 to 15.0 cm (5.91 inches)	0-13.5 cm (5.31 inches)
EAN-13 13 mils:	0 to 20.0 cm (7.87 inches)	0-18.5 cm (7.28 inches)

Item	Description
Decoding Capability	
1D / Linear Codes	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
Stacked Codes	GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional
Humidity	5 - 95%
Drop specifications	Withstands repeated drops from 1.5 m / 5.0 ft onto a concrete surface
Ambient Light immunity	0 - 20,000 lux
Particulate and Water Sealing	IP30
ESD Level	16 kV
Regulatory	
LED Emission Class	(IEC-62471:2006-07) Exempt Risk Group (RG 0)
Electrical Safety	IEC 60950-1,CAN/CSA C22.2 No. 60950-1-07; UL 60950-1
EMI/RFI	North America (FCC): Part 15 Class B, Canada (IC): ICES-003 Class B, European Union EMC Directive, Australian (RCM); Customs Union (CU); Korean KCC; Japan (VCCI)

LED and Beeper Indications

The reader'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 bar code 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.	Reader 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	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

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.

Datalogic Limited Factory Warranty

Warranty Coverage

Datalogic warrants to Customer that Datalogic's products will be free from defects in materials and workmanship for a period of 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.

Datalogic ('Datalogic') hardware products are warranted against defects in material and workmanship under normal and proper use. The liability of Datalogic under this warranty is limited to furnishing the labor and parts necessary to remedy any defect covered by this warranty and restore the product to its normal operating condition. Repair or replacement of product during the warranty does not extend the original warranty term. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update products once sold.

If Datalogic determines that a product has defects in material or workmanship, Datalogic shall, at its sole option repair or replace the product without additional charge for parts and labor, or credit or refund the defective products duly returned to Datalogic. To perform repairs, Datalogic may use new or reconditioned parts, components, subassemblies or products that have been tested as meeting applicable specifications for equivalent new material and products. Customer will allow Datalogic to scrap all parts removed from the repaired product. The warranty period shall extend from the date of shipment from Datalogic for the duration published by Datalogic for the product at the time of purchase (Warranty period). Datalogic warrants repaired hardware devices against defects in workmanship and materials on the repaired assembly for a 90 day period starting from the date of shipment of the repaired product from Datalogic or until the expiration of the original warranty period, whichever is longer. Datalogic does not guarantee, and it is not responsible for, the maintenance of, damage to, or loss of configurations, data, and applications on the repaired units and at its sole discretion can return the units in the "factory default" configuration or with any software or firmware update available at the time of the repair (other than the firmware or software installed during the manufacture of the product). Customer accepts responsibility to maintain a back up copy of its software and data.

Warranty Claims Process

In order to obtain service under the Factory Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the applicable Warranty period and obtain from Datalogic a return authorization number (RMA) for return of the product to a designated Datalogic service center. If Datalogic determines Customer's claim is valid, Datalogic will repair or replace product without additional charge for parts and labor. Customer shall be responsible for packaging and shipping the product to the designated Datalogic service center, with shipping charges prepaid. Datalogic shall pay for the return of the product to Customer if the shipment is to a location within the country in which the Datalogic service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations. Failure to follow the applicable RMA policy, may result in a processing fee. Customer shall be responsible for return shipment expenses for products which Datalogic, at its sole discretion, determines are not defective or eligible for warranty repair.

Warranty Exclusions

The Datalogic Factory Warranty shall not apply to:

- (i) any product which has been damaged, modified, altered, repaired or upgraded by other than Datalogic service personnel or its authorized representatives;
- (ii) any claimed defect, failure or damage which Datalogic determines was caused by faulty operations, improper use, abuse, misuse, wear and tear, negligence, improper storage or use of parts or accessories not approved or supplied by Datalogic;
- (iii) any claimed defect or damage caused by the use of product with any other instrument, equipment or apparatus;

- (iv) any claimed defect or damage caused by the failure to provide proper maintenance, including but not limited to cleaning the upper window in accordance with product manual;
- (v) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items;
- (vi) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.;
- (vii) the replacement of upper window/cartridge due to scratching, stains or other degradation and/or
- (viii) any consumable or equivalent (e.g., cables, power supply, batteries, keypads, touch screen, triggers etc.).

No Assignment

Customer may not assign or otherwise transfer its rights or obligations under this warranty except to a purchaser or transferee of product. No attempted assignment or transfer in violation of this provision shall be valid or binding upon Datalogic.

DATALOGIC'S LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY CUSTOMER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THIS WARRANTY STATEMENT IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. UNDER NO CIRCUMSTANCES WILL DATALOGIC BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY LOST PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL IN-DIRECT, SPECIAL OR CONTINGENT DAMAGES REGARDLESS OF WHETHER DATALOGIC HAD ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

Risk of Loss

Customer shall bear risk of loss or damage for product in transit to Datalogic. Datalogic shall assume risk of loss or damage for product in Datalogic's possession. In the absence of specific written instructions for the return of product to Customer, Datalogic will select the carrier, but Datalogic shall not thereby assume any liability in connection with the return shipment.

Support Through the Website

Datalogic provides several services as well as technical support through its website.

Log on to www.datalogic.com and click on the **SUPPORT > General Duty Handheld Scanners** category link. From this page you can select your product model from the dropdown list which gives you access to:

Downloads including Data Sheets, Manuals, Software & Utilities, and Drawings;

Repair Program for On-Line Return Material Authorizations (RMAs) plus Repair Center contact information;

Service Program containing details about Maintenance Agreements;

Technical Support through email or phone.



www.datalogic.com

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