

Psion Teklogix PowerScan® 7000 Linear Imager Quick Reference Guide

April 20, 2007 Part No. 8100093.B



*ISO 9001 Certified Quality
Management System*



Patents

This product may be covered by one or more of the following patents: 4603262 • 4639606 • 4652750 • 4672215 • 4699447 • 4709369 • 4749879 • 4786798 • 4792666 • 4794240 • 4798943 • 4799164 • 4820911 • 4845349 • 4861972 • 4861973 • 4866257 • 4868836 • 4879456 • 4939355 • 4939356 • 4943127 • 4963719 • 4971176 • 4971177 • 4991692 • 5001406 • 5015831 • 5019697 • 5019698 • 5086879 • 5115120 • 5144118 • 5146463 • 5179270 • 5198649 • 5200597 • 5202784 • 5208449 • 5210397 • 5212371 • 5212372 • 5214270 • 5229590 • 5231293 • 5232185 • 5233169 • 5235168 • 5237161 • 5237162 • 5239165 • 5247161 • 5256864 • 5258604 • 5258699 • 5260554 • 5274219 • 5296689 • 5298728 • 5311000 • 5327451 • 5329103 • 5330370 • 5347113 • 5347121 • 5371361 • 5382783 • 5386105 • 5389917 • 5410108 • 5420410 • 5422472 • 5426507 • 5438187 • 5440110 • 5440111 • 5446271 • 5446749 • 5448050 • 5463211 • 5475206 • 5475207 • 5479011 • 5481098 • 5491328 • 5493108 • 5504350 • 5508505 • 5512740 • 5541397 • 5552593 • 5557095 • 5563402 • 5565668 • 5576531 • 5581707 • 5594231 • 5594441 • 5598070 • 5602376 • 5608201 • 5608399 • 5612529 • 5629510 • 5635699 • 5641958 • 5646391 • 5661435 • 5664231 • 5666045 • 5671374 • 5675138 • 5682028 • 5686716 • 5696370 • 5703347 • 5705802 • 5714750 • 5717194 • 5723852 • 5750976 • 5767502 • 5770847 • 5786581 • 5786585 • 5787103 • 5789732 • 5796222 • 5804809 • 5814803 • 5814804 • 5821721 • 5822343 • 5825009 • 5834708 • 5834750 • 5837983 • 5837988 • 5852286 • 5864129 • 5869827 • 5874722 • 5883370 • 5905249 • 5907147 • 5923023 • 5925868 • 5929421 • 5945670 • 5959284 • 5962838 • 5979769 • 6000619 • 6006991 • 6012639 • 6016135 • 6024284 • 6041374 • 6042012 • 6045044 • 6047889 • 6047894 • 6056198 • 6065676 • 6069696 • 6073849 • 6073851 • 6094288 • 6112993 • 6129279 • 6129282 • 6134039 • 6142376 • 6152368 • 6152372 • 6155488 • 6166375 • 6169614 • 6173894 • 6176429 • 6188500 • 6189784 • 6213397 • 6223986 • 6230975 • 6230976 • 6237852 • 6244510 • 6259545 • 6260763 • 6266175 • 6273336 • 6276605 • 6279829 • 6290134 • 6290135 • 6293467 • 6303927 • 6311895 • 6318634 • 6328216 • 6332576 • 6332577 • 6343741 • 6454168 • 6478224 • 6568598 • 6578765 • 6705527 • 6974084 • 6991169 • 7051940 • AU703547 • D312631 • D313590 • D320011 • D320012 • D323492 • D330707 • D330708 • D349109 • D350127 • D350735 • D351149 • D351150 • D352936 • D352937 • D352938 • D352939 • D358588 • D361565 • D372234 • D374630 • D374869 • D375493 • D376357 • D377345 • D377346 • D377347 • D377348 • D388075 • D446524 • EP0256296 • EP0260155 • EP0260156 • EP0295936 • EP0325469 • EP0349770 • EP0368254 • EP0442215 • EP0498366 • EP0531645 • EP0663643 • EP0698251 • GB2252333 • GB2284086 • GB2301691 • GB2304954 • GB2307093 • GB2308267 • GB2308678 • GB2319103 • GB2333163 • GB2343079 • GB2344486 • GB2345568 • GB2354340 • ISR107546 • ISR118507 • ISR118508 • JP1962823 • JP1971216 • JP2513442 • JP2732459 • JP2829331 • JP2953593 • JP2964278 • MEX185552 • MEX187245 • RE37166 • Other Patents Pending

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Psion Teklogix Inc. provides a return to factory warranty on this product for a period of twelve (12) months in accordance with the Statement of Limited Warranty and Limitation of Liability provided at www.pSIONteklogix.com/warranty. (If you are not already a member of Teknet and you attempt to view this warranty, you will be asked to register. As a member of Teknet, you will have access to helpful information about your Psion Teklogix products at no charge to you.) In some regions, this warranty may exceed this period. Please contact your local Psion Teklogix office for details. For a list of offices, see “Support Services And Worldwide Offices”, below. The warranty on Psion Teklogix manufactured equipment does not extend to any product that has been tampered with, altered, or repaired by any person other than an employee of an authorized Psion Teklogix service organization. See Psion Teklogix terms and conditions of sale for full details.



Important: Psion Teklogix warranties take effect on the date of shipment.

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Call Toll free: +1 800 387 8898 Option 3 *or*

Direct Dial: +1 905 813 9900 Ext. 1999 Option 3

For technical support in EMEA (Europe, Middle East and Africa), please contact the local office listed in the website below:

<http://www.pSIONteklogix.com/EMEAsupport>

For technical support in Asia, please contact the local office listed in the website below:

<http://www.pSIONteklogix.com>

Technical Support for Mobile Computing Products is provided via email through the Psion Teklogix customer and partner extranets. To reach the website, go to www.pSIONteklogix.com, and click on the appro-

ropriate Teknet link on the home page. Then click on the “Login” button or the “Register” button, depending on whether you have previously registered for Teknet. Once you have logged in, search for the “Support Request Form”.

Product Repairs

For repair service in **North America**:

Call Toll free: +1 800 387 8898 Option 2 *or*

Direct Dial: +1 905 813 9900 Ext. 1999 Option 2

For repair service in **EMEA** (Europe, Middle East and Africa), please contact the local office listed in the website below:

<http://www.pSIONteklogix.com/EMEAsupport>

For repair service in **Asia**, please contact the local office listed in the website below:

<http://www.pSIONteklogix.com>

Worldwide Offices

COMPANY HEADQUARTERS

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CANADIAN SERVICE CENTRE

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Tel: +1 800 387 8898 Option 2 - or -
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Fax: +1 905 812 6304
E-mail: www.pSIONteklogix.com

NORTH AMERICAN HEADQUARTERS AND U.S. SERVICE CENTRE

Psion Teklogix Corp.

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Erlanger, Kentucky
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INTERNATIONAL SUBSIDIARIES (see also www.pSIONteklogix.com/Subsidiaries)

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Fax: +33 4 42 90 88 88
E-mail: tekeuro@psion.com



Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC

This Product, and its accessories, comply with the requirements of the Waste Electrical and Electronic Equipment (WEEE) Directive 2002/96/EC. If your end-of-life Psion Teklogix product or accessory carries a label as shown here, please contact your local country representative for details on how to arrange recycling. For a list of international subsidiaries, please go to:

www.pSIONteklogix.com/EnvironmentalCompliance

Restriction On Hazardous Substances (RoHS) Directive 2002/95/EC

What is RoHS?

The European Union has mandated that high environmental standards be met in the design and manufacture of electronic and electrical products sold in Europe, to reduce hazardous substances from entering the environment. The “Restriction on Hazardous Substances Directive (RoHS)” prescribes the maximum trace levels of lead, cadmium, mercury, hexavalent chromium, and flame retardants PBB and PBDE that may be contained in a product. Only products meeting these high environmental standards may be “placed on the market” in EU member states after July 1, 2006.



RoHS Logo

Although there is no legal requirement to mark RoHS-compliant products, Psion Teklogix Inc. indicates its compliance with the directive as follows:

The RoHS logo located either on the back of the product or underneath the battery in the battery compartment (or on a related accessory such as the charger or docking station) signifies that the product is RoHS-compliant as per the EU directive. Other than as noted below, a Psion Teklogix product that does not have an accompanying RoHS logo signifies that it was placed on the EU market prior to July 1, 2006, and is thereby exempt from the directive.



Note: *Not all accessories or peripherals will have a RoHS logo due to physical space limitations or as a result of their exempt status.*

Disclaimer

Every effort has been made to make this material complete, accurate, and up-to-date. In addition, changes are periodically added to the information herein; these changes will be incorporated into new editions of the publication.

Psion Teklogix Inc. reserves the right to make improvements and/or changes in the product(s) and/or the program(s) described in this document without notice, and shall not be responsible for any damages, including but not limited to consequential damages, caused by reliance on the material presented, including but not limited to typographical errors.

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

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.

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.

Power Supply

Models require either a Listed class II or class III with a Limited Power Source (LPS). For the safety certification to be valid, class III input power sources must be IEC/EN60950-1 (EN 60335-series, EN 60065 or relevant) approved.

Input: 100 - 240 VAC Output: 9 - 10 VDC

Max. Current: 2.0 A Max. Power: 20 W

Solids and Water Protection

The Imager has an IEC rating of IP65.

Datalogic Scanning, Inc.

POWERSCAN® END USER LICENSE AGREEMENT

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- 10.1 Either party may terminate this Agreement or any license granted under this Agreement at any time upon written notice if the other party breaches any provision of this Agreement.
- 10.2 Upon termination of this Agreement, End User immediately shall cease using any non-embedded software and shall return to Datalogic or destroy all non-embedded software covered by this Agreement, and shall fur-

nish Datalogic with a certificate of compliance with this provision signed by an officer or authorized representative of End User. For embedded software, End User agrees to sign a waiver prepared by Datalogic concerning further use of the embedded Software. End User's resumed or continued use of the embedded Software after termination shall constitute End User's agreement to be bound by the terms and conditions of this Agreement for such use.

11. General Provisions.

- 11.1 **Entire Agreement; Amendment.** This document contains the entire agreement between the parties relating to the licensing of the Software and supersedes all prior or contemporaneous agreements, written or oral, between the parties concerning the licensing of the Software. This Agreement may not be changed, amended, or modified except by written document signed by Datalogic.
- 11.2 **Notice.** All notices required or authorized under this Agreement shall be given in writing, and shall be effective when received, with evidence of receipt. Notices to Datalogic shall be sent to the attention of Contract Administration, Datalogic Scanning Inc., 959 Terry Street, Eugene, OR 97402, or such other address as may be specified by Datalogic in writing.
- 11.3 **Waiver.** A party's failure to enforce any of the terms and conditions of this Agreement shall not prevent the party's later enforcement of such terms and conditions.
- 11.4 **Governing Law; Venue:** 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.
- 11.5 **Attorneys' Fees.** 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.

- 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.

Laser Cautions

The imager may contain a laser pointer (this is a value-added option), which is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J for Class II and IEC 60825-1 for Class 2 products. Class II (2) products are not considered to be hazardous. Laser pointer models of the imager contain a Visible Laser Diode (VLD) at a wavelength of 655 nanometers and is designed so that there can be no human access to harmful levels of laser light during normal operation, user maintenance, or during prescribed service operations. See the User Manual for laser pointer configuration information and bar codes.



CAUTION

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 laser safety regulations.

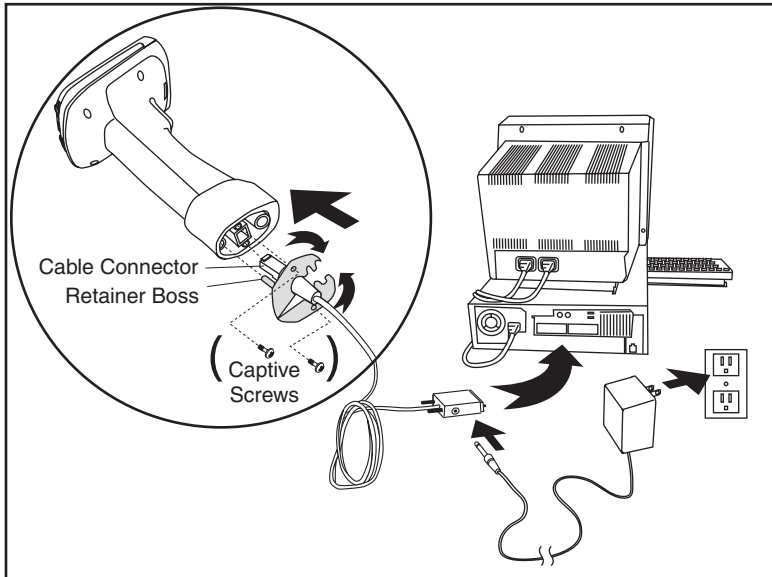
Getting Started

Connection

Use the appropriate instructions below to connect the scanner to the terminal, PC or other host device. The scanner kit you ordered to match your interface should provide a compatible cable for your installation. The scanner cable connection is secured using the “clamshell” retainer referenced in the enlarged area of [Figure 1](#). Fit and clamp the retainer over the cable connector as shown in the illustration, then fully seat the cable assembly into the scanner, aligning both the connector and the retainer boss with their respective openings. Secure the captive screws.

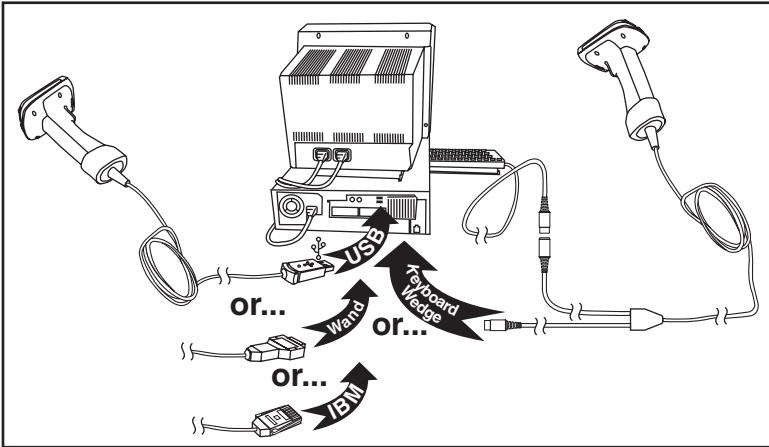
RS-232 Serial Connection — Turn off power to the terminal/PC and connect the scanner to the terminal/PC serial port via the RS-232 cable as shown in [Figure 1](#). If the terminal will not support POT (Power Off the Terminal) to supply scanner power, use the approved power supply (AC Adapter). Plug the AC Adapter barrel connector into the socket on the RS-232 cable connector and the AC Adapter plug into a standard power outlet.

Figure 1. RS-232 Serial Connection



USB Connection — Connect the scanner to a USB port on the terminal/PC using the correct USB cable for the interface type you ordered. Reference [Figure 2](#).

Figure 2. USB Connection



Wand Emulation Connection — Connect the scanner to the appropriate port on the terminal/PC using the correct cable for the interface type you ordered. Reference [Figure 2](#).

IBM Connection — Connect the scanner to the IBM port on the terminal/PC using the correct IBM cable. Reference [Figure 2](#).

Keyboard Wedge Connection — The Keyboard Wedge cable has a 'Y' connection from the scanner. Connect the female to the male end from the keyboard and the remaining end at the keyboard port at the terminal/PC. Reference [Figure 2](#).

Programming

The scanner is typically factory-configured with a set of default features standard to the interface type you ordered. You can select other options and customize your scanner through use of the instructions and programming bar codes available in the User Manual. You can view and download this and other manuals from the website listed on the front cover of this manual.

Select the desired interface by scanning the associated bar code below.










INTERFACE	SELECTION BARCODE
RS-232 Standard	
RS-232 Wincor-Nixdorf	
Wand Emulation	
IBM 4683 Port 5B	
IBM 4683 Port 9B	
IBM 4683 Port 17	
IBM USB	
USB HID Keyboard	
USB HID POS	












Table 1. Keyboard Wedge Interface Reference

I/F Type	PCs Supported
A	PC/XT w/Alternate Key Encoding
B	AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Alternate Key Encoding
C	PS/2 25 and 30 w/Alternate Key Encoding
D	PC/XT w/Standard Key Encoding
E	AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Standard Key Encoding
F	PS/2 25 and 30 w/Standard Key Encoding
G	IBM 3xxx w/122 keyboard
H	IBM 3xxx w/102 keyboard
I	PS/55 5530T w/104 keyboard
J	NEC 9801
K	WYSE 30/30+ WY-30 Keyboard 83 Keys
L	WYSE 60/85/99 GT/150/160/285 Style IBM Enhanced PC, 520/520ES Style IBM Enhanced PC FR WYSE 55/65/65 ES/120/185/325 Style IBM Enhanced PC
M	WYSE 60/85/99 GT/150/160/285 ANSI Keyboard 105 Keys, 520/520 ES ANSI Keyboard 105 Keys WYSE 55/65/65 ES/120/185/325 ANSI Keyboard 105 Keys
N	WYSE 60/85/99 GT/150/160/285 ASCII Kbd, 520/520 ES ASCII Kbd WYSE 55/65/65 ES/120/185/325 ASCII Keyboard
O	WYSE 60/85/99 GT/150/160/285 ANSI W285 Keyboard 105 Keys, 520/ 520 ES ANSI W285 Keyboard 105 Keys WYSE 55/65/65 ES/120/185/325 ANSI W285 Keyboard 105 Keys
P	WYSE WINTERM 3320 SE
Q	IBM 3153 IBM 316X, 3179/3180/319X/3270
R	IBM 3151/3152-010, 347X/348X
S	DIGITAL VT 220/320/330/340/350/382
T	DIGITAL VT420
U	DIGITAL VT 510/520 IBM ANSI Style Keyboard
V	DIGITAL VT 510/520 IBM PC Style Keyboard
W	SUN SPARC 5/10
X	SUN 420/440, ITX






Reference the User Manual for more information about keyboard support.

NOTE

Keyboard Wedge A	
Keyboard Wedge B	
Keyboard Wedge C	
Keyboard Wedge D	
Keyboard Wedge E	
Keyboard Wedge F	
Keyboard Wedge G	
Keyboard Wedge H	
Keyboard Wedge I	
Keyboard Wedge J	
Keyboard Wedge K	

Keyboard Wedge L
Keyboard Wedge M
Keyboard Wedge N
Keyboard Wedge O
Keyboard Wedge P
Keyboard Wedge Q
Keyboard Wedge R
Keyboard Wedge S
Keyboard Wedge T
Keyboard Wedge U



Keyboard Wedge V	
Keyboard Wedge W	
Keyboard Wedge X	

Resetting the Standard Product Defaults

If programming settings for your scanner are in an unknown condition, factory settings can be restored by scanning the “Standard Product Default Settings” bar code below. A listing of factory default settings is available in the User Manual. Settings can vary, depending upon the interface type.



Standard Product Default Settings

How to Scan

When the trigger is pressed, the scanner projects a red, horizontal illuminating beam. This beam will remain on until the trigger is released, a bar code is read, or until a time-out¹ period expires.



NOTE

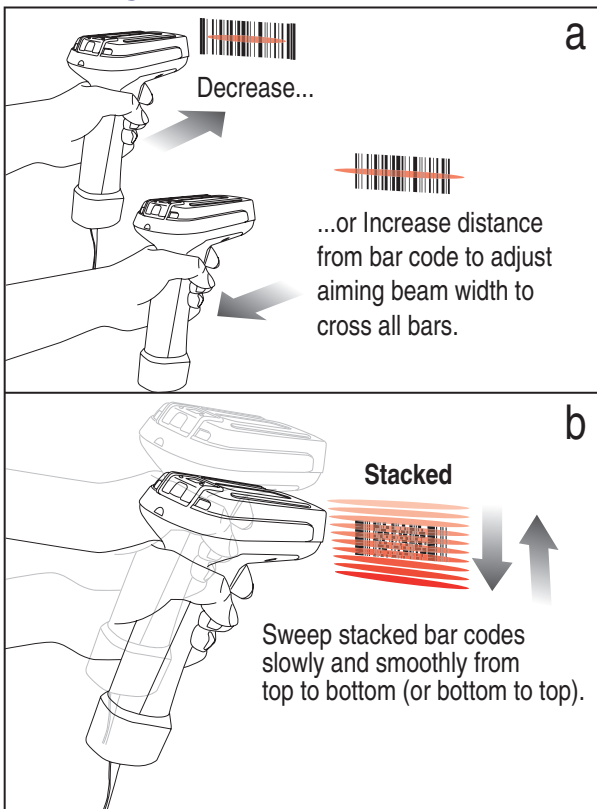
If the surface being scanned is highly reflective (e.g., laminated), it may be necessary to tilt the item or the scanner slightly (15° to 18°) to prevent unwanted reflection.

1. Reference the User Manual for more information about the aiming beam time-out period.

Linear Bar Codes — To scan a linear bar code, center the illumination beam over the bar code as shown in Figure 3a. The scanner must “see” across the width of all of the bars. Move the scanner further away from the bar code to increase the scanning coverage area, and closer in to read very small bar codes.

Stacked Bar Codes — Stacked bar codes are read by holding in on the trigger and moving the illumination beam in a smooth motion over the bar code from top to bottom as shown in Figure 3b. That motion should be slow as well, since moving very fast will cause individual rows of the stacked code to be overlooked, and will require extra sweeps to capture. You will hear a series of ticks, followed by a final beep when the bar code’s content has been completely decoded. You may need to sweep the bar code several times in order to complete the read. Sweeps may be made either from top-to-bottom or bottom-to-top.

Figure 3. Scanning Bar Codes



Troubleshooting

The scanner will automatically perform a set of self-tests whenever you turn it on. If your scanner doesn't seem to be functioning properly, follow these steps to try and isolate the problem.

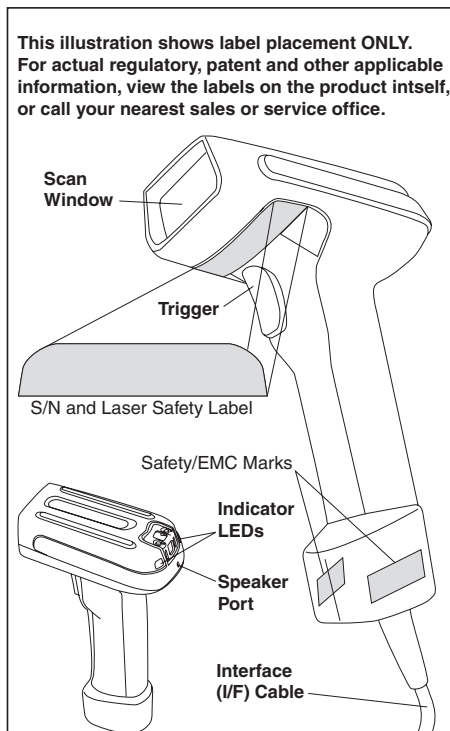
1. Is the power on? Does the illumination beam come on?
If no illumination beam, check that...
 - all connections are fully seated and in the appropriate port(s).
 - the host system power is on (if external power isn't used).
 - the trigger works.
2. Is the scanner having trouble reading your symbols?
If the scanner isn't reading symbols well, check that the symbols...
 - aren't smeared, rough, scratched, or exhibiting voids.
 - aren't coated with frost or water droplets on the surface.
 - are enabled in the scanner. See the User Manual for more about configuring the scanner to read symbologies).
3. Is the bar code displayed but not entered?
The bar code is displayed on the host device correctly, but you still have to press a key to enter it (the Enter/Return or Tab key, for example).

You need to program a suffix which enables the scanner to output the bar code data plus the key you need (such as a carriage return "CR") to enter the data into your application. Refer to the User Manual for further information.

4. Does the scanner read the bar code incorrectly?
If the scanner reads a bar code, but the data is not displayed correctly on the host screen:
 - The scanner may not be programmed for the appropriate terminal interface. For example, you scan "12345" and the host displays "@es%." Reprogram the scanner with the correct interface selection bar code. See [Programming](#) in this manual and/or the User Manual.

- The scanner may not be programmed to output your bar code data properly. For example, you scan “12345” and the host displays “A12345B.” Reprogram the scanner with the proper Data Editing selections. Reference the User Manual.
5. The scanner won't read your bar code at all.
 - Scan the part number bar code in the back of this manual or the samples from the User Manual. If the scanner reads sample bar codes, check that your bar code is readable.
 - Verify that your bar code symbology is enabled. See the User Manual.
 6. If you aren't sure what programming options have been set in the scanner, or if you want the factory default settings restored, go to the [Resetting the Standard Product Defaults](#) section of this manual and scan the standard factory default settings bar code.

Figure 4. Labeling and Nomenclature



NOTES

NOTES

DECLARATION OF CONFORMITY



Datalogic hereby declares that the Equipment specified below has been tested and found compliant to the following Directives and Standards:

Directives: EMC 89/336/EEC
Low Voltage 73/23/EEC

Standards: EN55022-B:A2/2003 - Generic Emissions
CISPR 22-B:2005 - Generic Emissions
EN55024:2001 - Generic Immunity - ITE
EN60950-1:2001 - ITE Safety
EN60825-1/A2:2002 - Laser Safety
EN61000-3-2:2000 - Harmonic Current
EN61000-3-3:2001 - Voltage Fluctuation/Flicker

Equipment Type: Barcode Scanning Equipment

Products: PowerScan 7000 family

Placed into EU Service: April 2007 under the Datalogic trademark. December 2005 under the PSC trademark.

Responsible Manufacturer: Datalogic Scanning, Inc. 959 Terry St. Eugene, OR USA



