

PowerScan® PBT7100 Base Station



Quick Reference Guide

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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 • 5703327 • 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 • 5905429 • 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 • 6230976 • 6230976 • 6244510 • 6259545 • 6260763 • 6266175 • 6273336 • 6276605 • 6279829 • 6290134 • 6290135 • 6293467 • 6303927 • 6311895 • 6318634 • 6328216 • 6332576 • 6332577 • 6343741 • 6454168 • 6478224 • 6588598 • 6578765 • 6705527 • 6857567 • 6974084 • 6991169 • 7051940 • 7170144 • 7172123 • 7201322 • 7204422 • 7215493 • 7224540 • 7234641 • 7243850 • 7374092 • 601 26 118.6 • 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 • EP01330772 • 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 • RE40.071 • Other Patents Pending

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NOTES

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

This equipment complies with FCC radiation exposure limits under Specific Absorption Rate (SAR) tests for portable devices operating closer than 20 cm to nearby persons, set forth in an uncontrolled environment. The reader has been demonstrated to meet these RF emissions safety limits.

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.

Solids and Water Protection

The reader is rated as IEC 529-IP65. This nomenclature designates the degree of water and dust resistance, indicating the imager is totally protected against dust and is protected against low pressure jets of water from all directions - limited ingress permitted.

The Base Station is rated as IEC 529-IP54, indicating the unit is protected against dust, limited ingress (no harmful deposit) and is protected against water sprayed from all directions - with limited ingress permitted.

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: 5.2 VDC
Max. Current: 2.4 A Max. Power: 12.5 W

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 635-670 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 barcodes.



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.

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. Datalogic Scanning, Inc.

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- 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 furnish 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.

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- 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 -

Getting Started

Connection

Figure 1 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.

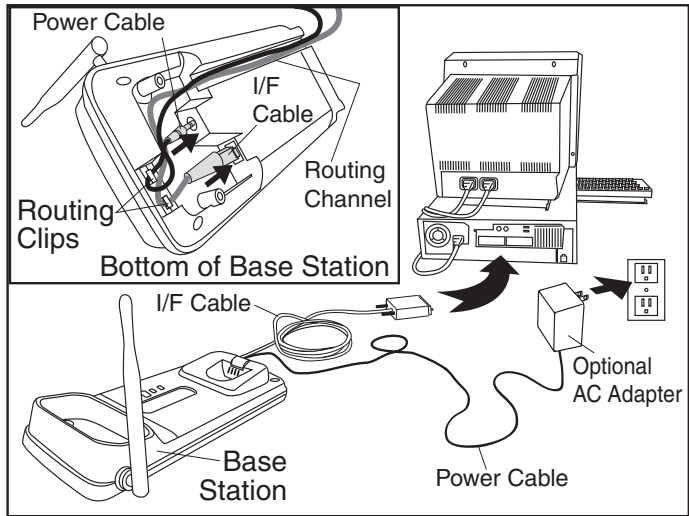
Base Station Connection and Routing — Fully insert the Power Cable and Interface (I/F) Cable connectors into their respective ports in the underside of the Base Station (see Figure 1). Alternatively, you can either loop the cables around the routing clips and back through the routing channel to the front of the Base Station as shown, or the cables can be fed directly out the back of the Base Station via the routing clips.

Optional Power Connection — Plug the AC Adapter into an approved AC wall socket with the cable facing downwards (as shown in Figure 1) to prevent undue strain on the socket.



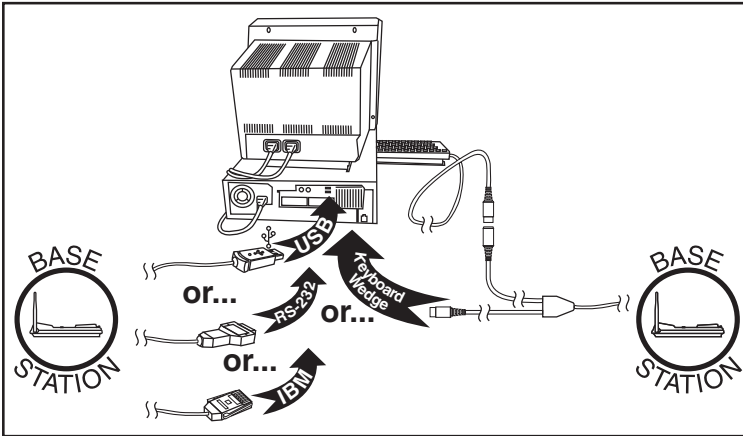
This Base Station **MUST** be used with a Datalogic approved power supply. It is not designed to obtain its power off of the terminal (POT). Connection to a host terminal without first connecting the external power supply may result in damage to the terminal.

Figure 1. Connecting the Base Station



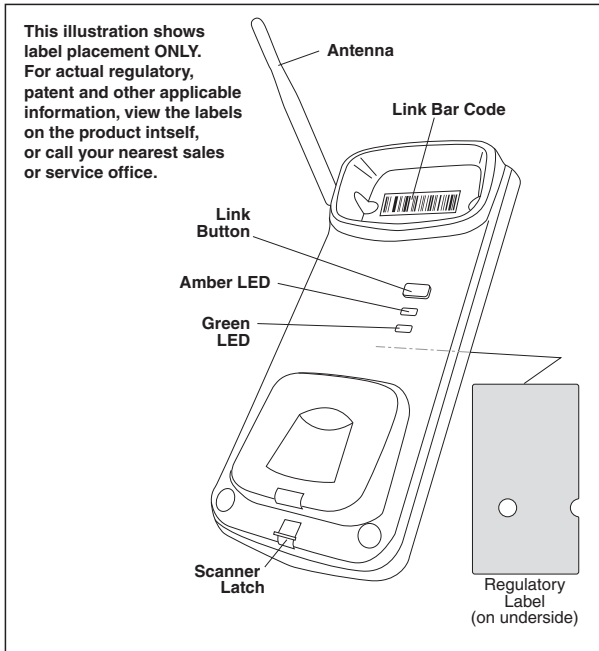
Host Connection — Typically, the interface type was specified at the time your reader and/or Base Station was ordered, however you should verify before connection that the Base Station's cable type is compatible with your host equipment. Most connections plug directly into the host device as shown in [Figure 2](#). 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 2. Connecting to the Host



Linking the Reader to a Base Station

To link a reader to a Base Station, press the Link Button on the Base Station (see [Figure 3](#)) for at least one second to place the base in "Link Mode" then scan the link barcode located on the Base Station itself using the reader to be linked. Allow the system several seconds to create the association between the two units and exit Link Mode. A successful link is indicated by three ascending tones from the reader. A "high-low-high-low" tone indicates the link attempt was unsuccessful. A single LED flash during this tone indicates no Base Station was discovered. Two green LED flashes during this tone indicates that more than one Base Station was discovered and the reader did not link.

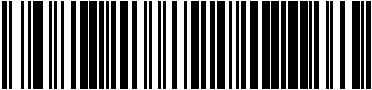
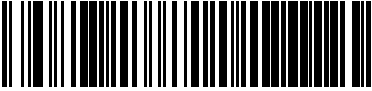

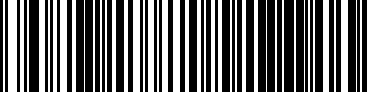







Figure 3. Labeling and Nomenclature**NOTE**

PowerScan® PBT7100 readers and Base Stations can be configured to be compatible with PowerScan® 7000BT imagers and Base Stations. Consult the Product Reference Guide (PRG) for full details.

Programming








The Base Station is typically factory-configured with a set of default features. You can select other options and customize your system through use of the instructions and programming barcodes available in the Product Reference Guide (PRG). You can view and download this and other manuals from the website listed on the back cover of this manual.

Select the desired interface by scanning the associated barcode below.

INTERFACE	SELECTION BARCODE
RS-232 Standard	
RS-232 Wincor-Nixdorf	
RS-232 for OPOS/UPOS/ JavaPOS	
Wand Emulation	
IBM 46XX Port 5B	
IBM 46XX Port 9B	
USB HID POS	
USB Com ^a	
USB Keyboard	
USB Alternate Keyboard	
USB OEM	

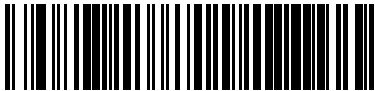
^a. Download the correct USB Com driver from www.datalogic.com

Interface selection — continued

INTERFACE	SELECTION BARCODE
Keyboard AT	 <p>Keyboard Wedge for PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Standard Key Encoding</p>
Keyboard AT-NK	 <p>Keyboard Wedge for IBM AT PS2 with standard key encoding but without external keyboard</p>
Keyboard AT-ALT	 <p>Keyboard Wedge for AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Alternate Key</p>
Keyboard AT-ALT-NK	 <p>Keyboard Wedge for IBM AT PS2 with alternate key encoding but without external keyboard</p>
Keyboard XT	 <p>Keyboard Wedge for PC/XT w/Standard Key Encoding</p>
Keyboard IBM 3153	 <p>Keyboard Wedge for IBM Terminal 3153</p>
Keyboard IBM-M	 <p>Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx make only keyboard</p>

Interface selection — continued

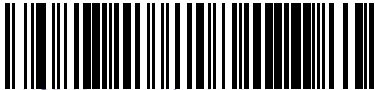
Keyboard IBM-MB
Keyboard DIG-VT
Keyboard USB-KBD- Apple



Keyboard Wedge for IBM Terminals
31xx, 32xx, 34xx, 37xx make break keyboard



Keyboard Wedge for DIGITAL Terminals VT2xx, VT3xx, VT4xx



USB Keyboard for Apple computers

EUROPEAN DECLARATION OF CONFORMITY



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

Apparatus: PowerScan PBT7100 System

Directives: EMC 2004/108/EC
Low Voltage 2006/95/EC
R&TTE 1999/5/EC
RoHS 2002/95/EC
WEEE 2002/96/EC

Standards: EN 301 489-1 v 1.6.1 reference
EN 301 489-17 v 1.2.1:2002
EN 300 328 v 1.7.1: 2006
EN 50392:2004
EN 61000 6-2:2005

IEC 60950-1:2007
EN 60825-1: 2007
EN 61000-3-2: 2000
EN 61000-3-3:1995+A1:2001
UL 1642, UL 2054, UN 38.3

Radio Immunity
Radio Emissions
Human exposure to electromagnetic fields
Generic Immunity - for Industrial Environments.
Includes EN61000-4-2 (ESD), 4-3 (Radiated immunity), 4-4 (EFT), 4-5 (Surge), 4-6 (Cond Immunity) and 4-11 (voltage dips/interruptions)
ITE Safety
Laser Safety
Harmonic Current
Voltage Fluctuation/Flicker
Safety - Li-ion Battery Pack

Equipment Type: Handheld Barcode Scanning Equipment

Interface Protocol: RS-232, USB, Keyboard Wedge, IBM

Placed into EU Service: January 2009 under the Datalogic logo

Responsible Manufacturer: Datalogic Scanning, Inc. 959 Terry St. Eugene, Oregon 97402 USA

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

Brad West
Dec. 16, 2008
Vice President
Supply Chain Operations
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