

# POWERSCAN™ PBT9100



## NEW TECHNOLOGY COMBINED WITH PRODUCT RELIABILITY

The PowerScan™ 9000 series of scanners has expanded and now introduces the PowerScan 9100 readers with new technology that provides an innovative laser-like green scanning line that implements the definition of a laser and the benefits of a linear imager scanner. The green scanning light has been proven to be the most comfortable color for the operator's eyes.

The PowerScan PBT9100 scanner features standard Bluetooth® wireless technology combined with outstanding reliability and reading performance on 1D codes.

## CONFIGURABLE TO FIT ALL APPLICATIONS

Based on Bluetooth 3.0 standard wireless technology, the PowerScan PBT9100 scanner can be configured to be Class 1 or Class 2 compliant, according to the mobility range desired. Class 1 allows distances that exceed 90.0 m / 295.0 ft in open air. The scanner can be connected through the receiving base station to the host with a wide choice of interfaces (Serial, USB, Keyboard Wedge) or by connecting the scanner directly to any commercial or embedded Bluetooth compliant device.

The PowerScan PBT9100 can also be connected through the BC9180-BT base/charger to Ethernet networks using Standard Ethernet and Industrial Ethernet protocols (Ethernet IP and Modbus).

## INDUSTRIAL APPLICATIONS

The PBT9100 scanner can be mounted on a forklift with a Vehicle Mount Terminal (VMT) providing a complete solution for warehouse applications.

A quick 3-second battery replacement combined with a single or multi-slot battery charger allows for continuous operation without interruption.



## FEATURES

- Datalogic's new linear imaging technology
- Bluetooth 3.0 Class 1 compliant
- Supports Bluetooth wireless technology SPP and HID profiles
- Piconet with up to 7 scanners connected to the same base station
- Ethernet Connectivity (Standard and Industrial)
- Datalogic's 3GL™ (Three Green Lights) and loud beeper for good-read feedback
- User replaceable Lithium-Ion battery
- Operates over a wide range of temperatures
- Water and Particulate Sealing Rating: IP65
- Drop resistance to 2.0 m / 6.6 ft
- Decoding Capability up to 2.5 mils
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRY - APPLICATION

- Warehouse and Distribution Centers: Shipping and Receiving, Order Processing, Parcel Preparation, Pallet Tracking and Put-away
- Manufacturing / Shop Floor: Work in Progress, Component Tracking, Quality Control and Inventory



## TECHNICAL SPECIFICATIONS

## WIRELESS COMMUNICATIONS

<b>Bluetooth Wireless Technology</b>	Maximum number of devices per base station: 7
<b>Profiles</b>	HID (Human Interface Device); SPP (Serial Port Profile)
<b>Protocol</b>	Bluetooth 3.0 Certified Class 1
<b>Radio Frequency</b>	2.40 to 2.48 GHz
<b>Radio Range (Open Air)</b>	Class 1: up to 100 m / 328 ft; Range distances are measured using the base station. Range with connection to other Bluetooth peripherals may show different results.
<b>Security</b>	Data Encryption; Scanner Authentication

## DECODING CAPABILITY

<b>PBT9100</b>	GS1 DataBar™ linear codes, UPC/EAN, UPC/EAN P2/P5 add ons, UPC/EAN Coupons, ISBN, Code 128, EAN 128, Code 39, Code 39 Full ASCII, Code 39 CIP, Code 32, Codabar, Interleaved 2 of 5, IATA, Industrial 2 of 5, Standard 2 of 5, Code 11, MSI, Plessey, Code 93, Follet 2/5, Code 4, Code 5, Datalogic 2 of 5, Codablock
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## ELECTRICAL

<b>Battery</b>	Lithium-Ion, 2150 mAh
<b>Charge Time</b>	External Power: 4 Hours; Host Power: 10 hours
<b>Reads per Charge</b>	50,000+ (continuous reading)
<b>Cradle Indicator LEDs</b>	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
<b>Current</b>	External Power: Max. 10 W (charging); POT: Max. 500 mA (charging)
<b>Input Voltage</b>	10 - 30 VDC, POT: 5 VDC +/- 10%

## ENVIRONMENTAL

<b>Ambient Light</b>	Immune to light exposure in offices/facilities and direct exposure to sunlight.
<b>Drop Resistance</b>	Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface.
<b>ESD Protection (Air Discharge)</b>	20 kV
<b>Humidity (Non-Condensing)</b>	0 - 95%
<b>Particulate and Water Sealing</b>	IP65
<b>Temperature</b>	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

## INTERFACES

<b>Interfaces</b>	Keyboard Wedge RS-232; USB: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)
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## PHYSICAL CHARACTERISTICS

<b>Colors Available</b>	Yellow/Black
<b>Dimensions</b>	Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in PBT9100: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in
<b>Weight</b>	Cradle: 380.0 g / 13.4 oz PBT9100-XX: 405.0 g / 14.2 oz

## READING PERFORMANCE

<b>Light Source</b>	Green LED
<b>Print Contrast Ratio (Minimum)</b>	15%
<b>Reading Angle</b>	Pitch: +/- 75; Roll (Tilt): +/- 45°; Skew (Yaw): +/- 70°
<b>Reading Indicators</b>	Beeper; Datalogic Three Green Lights (3GL™) Good Read Feedback; Datalogic 'Green Spot' on the Code; Dual Good Read LEDs; Good Transmission
<b>Resolution (Maximum)</b>	2.5 mils

## READING RANGES

<b>Typical Depth of Field</b>	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. <b>Code 39</b> 5 mils: 3.0 to 32.0 cm / 1.2 to 12.6 in 7.5 mils: 2.0 to 48.0 cm / 0.8 to 18.9 in 10 mils: 2.0 to 66.0 cm / 0.8 to 26.0 in 20 mils: 3.0 to 110.0 cm / 1.2 to 43.3 in 40 mils: 3.0 to 230.0 cm / 1.2 to 90.6 in <b>EAN 13</b> 2.0 to 61.0 cm / 1.2 to 24.0 in <b>Note:</b> Reading performances may change with different symbologies
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## SAFETY &amp; REGULATORY

<b>Agency Approvals</b>	The product meets necessary safety and regulatory approvals for its intended use. See the Regulatory Addendum for details.
<b>Environmental Compliance</b>	Complies to China RoHS; Complies to EU RoHS
<b>LED Classification</b>	Product compliant according to IEC 62471

## UTILITIES

<b>Datalogic Aladdin™</b>	Datalogic Aladdin configuration program is available for download at no charge.
<b>OPOS / JavaPOS</b>	JavaPOS and OPOS Utilities are available for download at no charge.
<b>Remote Host Download</b>	Available on request

## WARRANTY

<b>Warranty</b>	3-Year Factory Warranty
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## ACCESSORIES

## Base Stations / Chargers



## Cases / Holsters



## Mounts / Stands

