

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



POWERSCAN™ PBT9100

TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

Bluetooth Wireless Technology	Maximum number of devices per base station: 7
Profiles	HID (Human Interface Device); SPP (Serial Port Profile)
Protocol	Bluetooth 3.0 Certified Class 1
Radio Frequency	2.40 to 2.48 GHz
Radio Range (Open Air)	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.
Security	Data Encryption; Scanner Authentication

DECODING CAPABILITY

PBT9100	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

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

ENVIRONMENTAL

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

INTERFACES

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

Colors Available	Yellow/Black
Dimensions	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
Weight	Cradle: 380.0 g / 13.4 oz PBT9100-XX: 405.0 g / 14.2 oz

READING PERFORMANCE

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

READING RANGES

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. Code 39 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 EAN 13 2.0 to 61.0 cm / 1.2 to 24.0 in Note: Reading performances may change with different symbologies
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SAFETY & REGULATORY

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

UTILITIES

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

WARRANTY

Warranty	3-Year Factory Warranty
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ACCESSORIES

Base Stations / Chargers



BC9030-BT Base/Charger, Multi-Interface



BC9130-BT Base/Dual Charger, Multi-Interface
BC9180-BT Base/Dual Charger/Ethernet (Standard, Industrial)

Cases / Holsters



HLS-P080 Universal Holster (HLS-8000)

Mounts / Stands



HLD-P080 Desk/Wall Holder (HLD-8000)



7-0404 Industrial Take-Up Reel

DATALOGIC PRODUCT OFFERING



Sensors



Hand Held scanners



Mobile Computers



Laser Marking Systems



Safety Laser Scanner



Vision Systems



Stationary Industrial Scanners



Safety Light Curtains