POWERSCAN™ PBT9100

DATALOGIC

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-APPLICATIONS

- 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

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TECHNICAL SPECIFICATIONS

CORDLESS 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 F

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

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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**

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

ACCESSORIES

Base Stations/Chargers



- BC9030-BT Base/Charger, Multi-Interface



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

Cases/Holsters



- HLS-P080 Universal Holster (HLS-8000)

Mounts/Stands



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



- 7-040 Industrial Take-Up Reel

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