POWERSCAN™ PBT8300

⊕DATALOGIC™

Industrial Handheld Laser Bar Code Scanner with Bluetooth® Wireless Technology

The PowerScan™ 8300 series of laser scanners are Datalogic Scanning's premium line of rugged industrial handheld data collection products for linear codes. The PowerScan PBT8300 laser scanner features the standard Bluetooth® wireless technology combined with the outstanding reliability and reading performance found in PowerScan products.

Based on the Bluetooth 2.0 standard, the PowerScan PBT8300 scanner is easily configured to be compliant with Class 1 or Class 2 requirements, according to the mobility range desired, allowing for distances that exceed 90 m / 295 ft in open air. Connectivity is implemented through the receiving base station, which communicates to the host through a choice of interfaces (Serial, USB, Keyboard Wedge or Wand Emulation), or by connecting the scanner directly to any commercial or embedded Bluetooth® compliant device.

The PowerScan PBT8300 scanner mounted on a forklift with a Vehicle Mount Terminal (VMT) provides an excellent solution for warehouse applications. The PowerScan PBT8300 is available in three different models: a basic cordless model (PBT8300); an intermediate model with a display and 3-key keypad (PBT8300-D); and the advanced model (PBT8300-DK) which features a display and a full 16-key alphanumeric keyboard. The PBT8300-DK model additionally includes an embedded code-quantity application, for use in inventory, picking or receiving applications. All PowerScan PBT8300 models are available with reading optics for Standard Range (SR) or Auto Range (AR) for reading distances up to 12.5 m / 41.0 ft.

PowerScan bar code readers are the ultimate industrial handheld devices, designed and constructed to withstand the toughest environmental conditions in demanding applications, offering lasting performance and outstanding reliability combined with exceptional reading performance and accuracy.

Features
- Bluetooth® 2.0 Compliant: Class 1 or Class 2 configurable via software
- Supports Bluetooth® wireless technology SPP and HID profiles
- Piconet with up to 4 scanners connected to the same base station
- Optics available in Standard Range (contact up to 1.0 m / 3.3 ft) and Auto Range (20 cm / 8 in up to 12.5 m / 41.0 ft)
- Datalogic 3GL™ and loud beeper for good-read feedback
- User replaceable lithium-ion batter
- Operates over a wide range of temperatures
- Water and particulate sealing rating: IP65/IP64
- Drop resistance to 2.0 m / 6.5 ft

Specifications

CORDLESS COMMUNICATIONS

BLUETOOTH WIRELESS TECHNOLOGY
Piconet: Max. Readers per Radio Receiver: 4
Profiles: HID (Human Interface Device); SPP (Serial Port Profile)
Protocol: Bluetooth 2.0 Certified Class 1 or Class 2 (configurable)
Radio Frequency: 2.40 to 2.48 GHz;
Radio Range (Open Air): Class 1: Exceeds 90 m / 295 ft radio range;
Class 2: Exceeds 40 m / 131 ft radio range
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

1D / LINEAR CODES
Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes

STACKED CODES
Code 16K; Code 49; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional

ELECTRICAL

BATTERY
Battery Type: Lithium-Ion, 2150 mAh
Charge Time: External Power: 4 Hours; Host Power: 10 hours
Reads per Charge: > 50,000

CRADLE INDICATOR LEDS
Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)

CURRENT
Operating (Typical): 1 A @ 10 VDC, 330 mA @ 30 VDC, POT: 500 mA

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)
90%

PARTICULATE AND WATER SEALING
PBT8300: IP65; PBT8300-D, PBT8300-DK: IP64

TEMPERATURE
Operating: -20 to 50 °C / -4 to 122 °F
Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES

RS-232 / USB / Keyboard Wedge / Wand Multi-Interface

PHYSICAL CHARACTERISTICS

DIMENSIONS
Cradle: 24.0 x 10.8 x 9.5 cm / 9.5 x 4.3 x 3.7 in
PBT8300: 20.7 x 11.4 x 6.9 cm / 8.1 x 4.5 x 2.7 in
PBT8300-D, PBT8300-DK: 21.0 x 11.4 x 6.9 cm / 8.3 x 4.5 x 2.7 in

DISPLAY
Display Type: PBT8300-D, PBT8300-DK: Graphic with backlight
Font Dimensions: PBT8300-D only: User selectable (4 lines x 16 columns default)
Screen Dimensions: 32 x 96 pixels

KEYPAD
PBT8300-D Only: 3-Key Keypad; PBT8300-DK: 16-Key Keypad

WEIGHT
Cradle: 380.0 g / 13.4 oz; PBT8300: 380.0 g / 13.4 oz
PBT8300-D: 410.0 g / 14.4 oz; PBT8300-DK: 420.0 g / 14.8 oz

READING PERFORMANCE

LIGHT SOURCE
630 - 680 nm VLD; Aiming: 630 - 680 nm VLD, Activated by 'Double-Click' Trigger

PRINT CONTRAST RATIO (MINIMUM)
15%

READ RATE (MAXIMUM)
35 +/- 5 scans/sec.

READING ANGLE
Pitch: 5 to 55° / -5 to -55; Roll (Tilt): +/- 20°; Skew (Yaw): +/- 60°

READING INDICATORS
Beeper (Adjustable Tone and Volume); Datalogic Three Green Lights (3GL™) Good Read Feedback; Datalogic 'Green Spot' on the Code; Dual Good Read LEDs; Good Transmission

RESOLUTION (MAXIMUM)
PBT83X0: 0.076 mm / 3 mils; PBT83X0 Auto Range: 0.190 mm / 7.5 mils

READING RANGES

TYPICAL DEPTH OF FIELD
Minimum distance determined by symbol length and scan angle.
Printing resolution, contrast, and ambient light dependent.

PBT8300	PBT8300 AR
5 mils: 2.1 to 13.3 cm / 0.8 to 5.2 in	7.5 mils: 18.0 to 50.0 cm / 7.0 to 19.7 in
7.5 mils: 3.5 to 24.2 cm / 1.4 to 9.5 in	10 mils: 18.0 to 85.0 cm / 7.0 to 33.5 in
10 mils: 2.9 to 42.8 cm / 1.1 to 16.8 in	15 mils: 15.0 to 165.0 cm / 5.9 to 65.0 in
13 mils: 2.3 to 55.1 cm / 0.9 to 21.7 in	20 mils: 12.0 to 210.0 cm / 4.7 to 82.7 in
20 mils: 6.3 to 78.5 cm / 2.5 to 30.9 in	40 mils: 18.0 to 375.0 cm / 7.0 to 147.6 in
40 mils: 2.5 to 97.8 cm / 1.0 to 38.5 in	55 mils: 25.0 to 485.0 cm / 9.8 to 15.9 ft
	Reflective -100 mils: 1.5 to 12.5 m / 4.9 to 41.0 ft

SAFETY & REGULATORY

AGENCY APPROVALS
The product meets necessary safety and regulatory approvals for its intended use.
The Quick Reference Guide for this product can be referred to for a complete list of certifications.

ENVIRONMENTAL COMPLIANCE
Complies to China RoHS; Complies to EU RoHS

LASER CLASSIFICATION
Caution Laser Radiation - Do not stare into beam; CDRH Class II; EN 60825-1 Class 2

UTILITIES

DATALOGIC ALADDIN™
Datalogic Aladdin configuration program is available for download at no charge

WARRANTY

3-Year Factory Warranty

Accessories

Base Stations/Chargers
• BC8030-BT Base/Charger Multi-Interface
• CHR-PM80 Charger (C-8000)

Batteries/Battery Chargers
• FBP-PM80 Fixed Battery Pack (FBP-8000)
• MC-P080 Multiple Battery Charger (MC-8000)
• RBP-PM80 Removable Battery Pack (RBP-8000)

Cases/Holsters
• 11-0138 Heated Holder, 36 VDC (not for use with PBT8300-D/-DK models)
• 11-0139 Heated Holder, 24 VDC (not for use with PBT8300-D/-DK models)
• 11-0140 Heated Holder, 48 VDC (not for use with PBT8300-D/-DK models)
• HLS-P080 Universal Holster (HLS-8000)
• PC-P080, PCD-P080 Protective Case/Belt Holster (PC-8000, PC-8000-D)

Mounts/Stands
• 7-0404 Industrial Take-Up Reel
• HLD-P080 Desk/Wall Holder (HLD-8000)
• STD-P080 Hands Free Stand (STD-8000)
• VMK-PM80 Vehicle Mount Kit

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About BarcodesInc

BRANDS

Who We Are

BarcodesInc is North America's leading provider of •]^&ãæ|ã^åÁå|ã ã āzæ|Áã æzæ^Á@æ·å̧ æ·^Áæ}åÁ^[-ç̧ æ·^Á[|̆ cĀĩ}•ĒÁUˇ¦Á p¦[å^&c·Áã̞&|̆ å^Áã·æ·ɛ&[å^Á·Á&æ}}^|•ĒÁ[àã·^Á&|{]ˇ cã¡*Á̃æ^çã&·•Ēᾶiã^}ãããÁæææ}Á&æ·åÁÁˇ·ã{ ^}åÁ[ã|ãɆ-Ēฺæ}^Á •^·•c^{ ·Ēᾶiæ·ɛ&[å^Á/æã^|/æ·ɛ} åÁ^&·Áã o/Á·|ã c·|•Ēᾶæ·ɛ} åÁ8[}•ˇ·{ æã|^·Ēᾶæ·Áŋ̞-Á @&.@/@·]]/Á&·•q̧{ ^·|•Á·̧æ̞]]·|[ç^Á·¦[å·̆ &ã̞ãā̃Á æ̞}åÁ̞|[-̃ãᾱ̃|ã̃̃ã�̃ÉU˘¦Á|¦[å˘&·̃}åÁ·̞Á[|̆ cã¡}Á·Á¢]^|ơÁ@zɕ^Áå̞æ^^}Á^·|çãã*Á·Á[c@Á&{ æ·||Áã̆ •ã} ^••^•/Áæ·}åÁÁ¦æ·*^Á·}c·^]¦¦ã·^•Á •ã·|&^ÁFJJI È

We Owe Our Success To You

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Why Choose BarcodesInc?

Dedicated Account Á U̥ b U̥̣ Yf

Our Account Managers will not compromise when it comes to providing you top-notch service. Your Account Manager is the primary point of contact for your business and makes it a priority to get to know you, your company and all your needs.

Highly-Trained Technical Support

Our technical staff has the broadest knowledge and every significant certification in the industry. One of our friendly experts is always available to suggest products and solutions for any situation.

Incredible Value

Our purchasing power means big savings for you. Whatever your project, our team will work hard to deliver a solution that fits your budget.

Largest Inventory in the Industry and Same-Day Shipping

Whatever your barcoding, mobile computing, or printing needs, we will fill your order and ship it the sameÁåæê È

Premier Access to Top Manufacturers

BarcodesInc maintains strong strategic partnerships with the leading manufacturers in barcoding, mobile computing, printing and RFID.

Responsive Customer Service

Every phone call and email is responded to promptly, completely and accurately by our customer serviceÁ^æ¶ È

Easy Returns

Damaged, defective or incorrectly ordered goods may be returned without hassle.

BRANDS

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Intermec

Honeywell

DATALOGIC

SATO

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