## INDUSTRIAL HANDHELD LASER BAR CODE SCANNER WITH BLUETOOTH® WIRELESS TECHNOLOGY

The PowerScan™ 8300 series of laser scanners are Datalogic ADC'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

## CORDLESS COMMUNICATIONS

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| **BLUETOOTH WIRELESS TECHNOLOGY** | Piconet: Max. Readers per Radio Receiver: 4<br>Profiles: HID (Human Interface Device); SPP (Serial Port Profile)<br>Protocol: Bluetooth 2.0 Certified Class 1 or Class 2 (configurable)<br>Radio Frequency: 2.40 to 2.48 GHz;<br>Radio Range (Open Air): Class 1: Exceeds 90 m / 295 ft radio range;<br>Class 2: Exceeds 40 m / 131 ft radio range<br>Range distances are measured using the base station.<br>Range with connection to other Bluetooth peripherals may show different results.<br>Security: Data Encryption; Scanner Authentication |

## DECODING CAPABILITY

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| **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

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| **BATTERY** | Battery Type: Lithium-Ion, 2150 mAh<br>Charge Time: External Power: 4 Hours; Host Power: 10 hours<br>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

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| **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<br>Storage/Transport: -20 to 70 °C / -4 to 158 °F |

## INTERFACES

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| **INTERFACES** | RS-232 / USB / Keyboard Wedge / Wand Multi-Interface |

## PHYSICAL CHARACTERISTICS

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| **DIMENSIONS** | Cradle: 24.0 x 10.8 x 9.5 cm / 9.5 x 4.3 x 3.7 in<br>PBT8300: 20.7 x 11.4 x 6.9 cm / 8.1 x 4.5 x 2.7 in<br>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<br>Font Dimensions: PBT8300-D only: User selectable (4 lines x 16 columns default)<br>Screen Dimensions: 32 x 96 pixels |
| **KEYPAD** | PBT8300-D Only: 3-Key Keypad;<br>PBT8300-DK: 16-Key Keypad |
| **WEIGHT** | Cradle: 380.0 g / 13.4 oz; PBT8300: 380.0 g / 13.4 oz<br>PBT8300-D: 410.0 g / 14.4 oz; PBT8300-DK: 420.0 g / 14.8 oz |

## READING PERFORMANCE

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| **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°;<br>Skew (Yaw): +/- 60° |
| **READING INDICATORS** | Beeper (Adjustable Tone and Volume); Datalogic Three Green Lights (3GL™) Good Read Feedback; Datalogic 'Green Spot' on the Code;<br>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

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

| **PBT8300** | **PBT8300 AR** |
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| 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

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| **AGENCY APPROVALS** | The product meets necessary safety and regulatory approvals for its intended use.<br>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

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| **DATALOGIC ALADDINTM** | Datalogic Aladdin configuration program is available for download at no charge. |

## WARRANTY

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| **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; 11-0139 Heated Holder, 24 VDC ; 11-0140 Heated Holder, 48 VDC (Heated Holders 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