

POWERSCAN™ PBT9501-AR



EXTENDED READING RANGE WITH A POWERFUL AUTOFOCUS SYSTEM

The PowerScan™ PBT9501 Auto Range (AR) is a hand held industrial scanner with area imaging technology that can read 1D/2D barcodes with an extended reading range. Its powerful autofocus system allows the scanner to read from a short distance of 15 cm / 6 in to a distance of more than 20 m / 65 ft with a fast focus adjustment, allowing the operator to easily read a close up barcode and then focus at the top of a warehouse rack.

MOBILITY ENHANCES PRODUCTIVITY

The PowerScan PBT9501 AR reader can support multi-code features as well as pick mode where only the barcode pointed at by the aiming system is decoded. The quick 3-second battery replacement combined with a single or multi-slot battery charger allows for continuous operation without interruption. The BC9180-BT base/charger also includes in the same model two different Ethernet connections: Standard Ethernet and Industrial Ethernet protocols such as Ethernet IP and Modbus.

BUILT TO LAST

The PowerScan PBT9501 AR reader has been tested to withstand extreme environmental conditions and is also suitable for the toughest industrial applications.

FEATURES

- Extended reading range: decodes from 15 cm / 6 in up to more than 20 m / 65 ft with fast focus adjustment
- Omnidirectional reading of 1D/2D codes
- Reads up to 3 mil codes
- Bluetooth® 3.0 Compliant: Class 1
- Piconet with up to 7 scanners connected to the same base station
- 3-second battery replacement
- Operates over a wide range of temperatures
- Water and Particulate Sealing Rating: IP65
- Drop resistance to 2.0 m / 6.5 ft
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good-read feedback
- In-field replaceable window and cradle contact
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI.

INDUSTRY - APPLICATION

- **Factory Automation:**
 - Material Picking
 - Shipping / Receiving
 - Order Processing
- **Manufacturing Shop Floor:**
 - Work-in-Progress
 - Component Tracking
- **Warehouse / Logistic Centers:**
 - Forklift Picking Applications
 - Shipping / Receiving
 - Parcel Preparation

POWERSCAN PBT9501-AR

TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

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|--------------------------------------|---|
| 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

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|--------------------------|---|
| 1D / Linear Codes | Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes. |
| 2D Codes | Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code |
| Postal Codes | Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post |
| Stacked Codes | EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites |

ELECTRICAL

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|------------------------------|---|
| Battery | Li-Ion 3350 mAh; Charge Time: External Power: 4.5 Hours; Host Power: 10 Hours |
| Reads Per Charge | 40,000+ (continuous reading) |
| Cradle Indicator LEDs | Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow) |
| Cradle Consumption | External Power < 8W; POT: Max 500 mA when in host/bus powered mode. |
| Input Voltage | External: 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 / 6.5 ft to concrete |
| 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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| Interfaces | Keyboard Wedge; RS-232 USB: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial) |
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PHYSICAL CHARACTERISTICS

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| Colors Available | Yellow/Black |
| Dimensions | Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in PBT9501-AR: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in |
| Weight | 460.0 g / 16.2 oz |

READING PERFORMANCE

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| Light Source | LED |
| Print Contrast Ratio (Minimum) | 15% |
| Reading Angle | Pitch: +/- 80°; Roll (Tilt): +/- 180°; Skew (Yaw): +/- 60° |
| Field of View | Near Field: 14°(H) x 10.5°(V); Over 3 m / 10 ft: 14.4°(H) x 10.8°(V) |
| 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) | 1D Codes: 3 mils; 2D Codes: 4 mils |

READING RANGES

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| Typical Depth of Field | Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. |
| EAN 13: | 20 to 290 cm / 7.8 to 114.1 in |
| Code 39: | 10 mils: 15 to 160 cm / 5.9 to 63.0 in 40 mils: 50 to 1,100 cm / 20.0 to 433.0 in 100 mils: up to 2,300 cm / 75.0 ft |
| Code 128: | 15 mils: 30 to 330 cm / 11.8 to 129.9 in 40 mils: 60 to 850 cm / 23.6 to 335.0 in 100 mils: up to 20 m / 65.0 ft |
| DataMatrix: | 10 mils: 20 to 85 cm / 7.8 to 33.5 in 55 mils: 30 to 550 cm / 11.8 to 216.5 in 100 mils: 30 to 880 cm / 11.8 to 349.5 in 200 mils: up to 20 m / 65 ft |

Note: Reading performances may change with different symbologies; Reading performances @ 300 lux of ambient light.

SAFETY & REGULATORY

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| Agency Approvals | The product meets necessary safety and regulatory approvals for its intended use. See the Regulatory Addendum for details. |
| Environmental Compliance | Complies to EU RoHS; Complies to China RoHS |
| Laser Classification | Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825-1 Class 2 |
| LED Classification | IEC 62471 Exempt Risk Group |

UTILITIES

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| 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

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| 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)

Batteries/Battery Chargers



RBP-PM91-BK Removable Battery Pack
FBP-PM91 Fixed Battery Pack
MC-P090 Multiple Battery
Charger, 4-Slots

Cases/Holsters



HLS-P080 Universal Holster (HLS-8000)
PC-P090 Protective Case/
Belt Holster (PC-9000)

Mounts/Stands



7-0404 Industrial Take-Up Reel
HLD-P080 Desk/Wall Holder (HLD-8000)
STD-P090 Hands Free Stand (STD-9000)
VMK-P090 Vehicle Mount Kit