

# 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

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

### DECODING CAPABILITY

<b>1D / Linear Codes</b>	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
<b>2D Codes</b>	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
<b>Postal Codes</b>	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post
<b>Stacked Codes</b>	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

<b>Battery</b>	Li-Ion 3350 mAh; Charge Time: External Power: 4.5 Hours; Host Power: 10 Hours
<b>Reads Per Charge</b>	40,000+ (continuous reading)
<b>Cradle Indicator LEDs</b>	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
<b>Cradle Consumption</b>	External Power < 8W; POT: Max 500 mA when in host/bus powered mode.
<b>Input Voltage</b>	External: 10 - 30 VDC; POT: 5 VDC +/- 10%

### ENVIRONMENTAL

<b>Ambient Light</b>	Immune to light exposure in offices/facilities and direct exposure to sunlight.
<b>Drop Resistance</b>	Withstands 50 drops from 2.0 m / 6.5 ft to concrete
<b>ESD Protection (Air Discharge)</b>	20 kV
<b>Humidity (Non-Condensing)</b>	0 - 95%
<b>Particulate and Water Sealing</b>	IP65
<b>Temperature</b>	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

### INTERFACES

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

<b>Colors Available</b>	Yellow/Black
<b>Dimensions</b>	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
<b>Weight</b>	460.0 g / 16.2 oz

### READING PERFORMANCE

<b>Light Source</b>	LED
<b>Print Contrast Ratio (Minimum)</b>	15%
<b>Reading Angle</b>	Pitch: +/- 80°; Roll (Tilt): +/- 180°; Skew (Yaw): +/- 60°
<b>Field of View</b>	Near Field: 14°(H) x 10.5°(V); Over 3 m / 10 ft: 14.4°(H) x 10.8°(V)
<b>Reading Indicators</b>	Beeper; Datalogic Three Green Lights (3GL™); Good Read Feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs; Good Transmission
<b>Resolution (Maximum)</b>	1D Codes: 3 mils; 2D Codes: 4 mils

### READING RANGES

<b>Typical Depth of Field</b>	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

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

### UTILITIES

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

### WARRANTY

<b>Warranty</b>	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