

# POWERSCAN™ PBT9501-AR



### EXTENDED READING RANGE WITH A POWERFUL AUTOFOCUS SYSTEM

The PowerScan<sup>TM</sup> 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**

- $\bullet$  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<sup>™</sup> (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	
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	
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	
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	
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	
Interfaces	Keyboard Wedge; RS-232 USB: 0EM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARAC	TERISTICS	
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		
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		
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 / 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: up to 20 m / 65.1 ft	
Note: Reading performances may change with different symbologies; Reading performances @ 300 lux of ambient light.		
SAFETY & REGULAT	TORY	
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		

## 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)



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

Datalogic Aladdin™

Remote Host Download

OPOS / JavaPOS

Warranty



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

#### Mounts/Stands

Datalogic Aladdin configuration program is available for

JavaPOS and OPOS Utilities are available for download

download at no charge.

Available on request

3-Year Factory Warranty

at no charge.



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

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