POWERSCAN™ PBT9501

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AIM, TRIGGER, DECODE: IT'S THAT SIMPLE!

An intuitive and effortless scanning experience is the target of the PowerScan™ 9501 series. They combine omnidirectional reading capabilities, typical in all area imaging scanners, with outstanding optical characteristics. The result is a scanner that is able to read any kind of bar code, regardless of the orientation, from contact to over 1 m / 3.3 ft, depending on the bar code resolution.

MOBILITY ENHANCES PRODUCTIVITY

The PowerScan PBT9501 further enhances operator efficiency and safety with Bluetooth® wireless technology; no matter if you need 1 or 100 meters of freedom: you never need to worry about getting tangled up in the cable. Accurate power management allows long lasting battery life to always guarantee more than one shift of intensive scanning. Should you need to operate for 24 hours, a 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 one model two different Ethernet connections: Standard Ethernet and Industrial Ethernet protocols such as Ethernet IP and Modbus.

DEVELOPED WITH THE USER IN MIND

Handle shape, well-balanced weight and an intuitive aiming system allows high first-pass reading rates while reducing unnatural wrist movements for improved ergonomics and user comfort.

The PowerScan 9501 area imagers use a soft-pulsed white illumination light that is very gentle on the eyes and less troublesome to the operator during scan-intensive applications.

BUILT TO LAST

The rugged mechanics of the PowerScan brand guarantees reliable, long term operation. Repeated shocks and indoor / outdoor usage in the toughest environmental conditions do not impact its performance or reliability.

FEATURES

- High-performance Liquid Lens allows one model to read standard, wide and high density codes
- Piconet with up to 7 scanners connected to the same base station
- Snappy omnidirectional reading
- Intuitive aiming system
- Soft white light illumination
- Bluetooth® 3.0 Compliant: Class 1
- Multiple interfaces available
- Ethernet Connectivity (Standard and Industrial)
- Lithium-Ion battery replaces in 3 seconds!
- Datalogic's Motionix™ motion-sensing technology
- Ergonomic shape
- Image capture
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good-read feedback
- Water and Particulate Sealing Rating: IP65
- In-field replaceable window and cradle contacts
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRY – APPLICATION

- Entertainment:
  - Access Control
  - Mobile Coupons
  - Ticket Validation
  - Security / Age Verification
  - Lottery
- Manufacturing Shop Floor:
  - Work-in-Progress
  - Sub-Assembly
  - Component Tracking
  - Quality Control
  - Time and Cost Analysis
  - Machine Replenishment /Configuration
  - Line Inventory Control
- Warehouse and Logistic Centers:
  - Shipping / Receiving
  - Parcel Preparation
  - Picking / Put Away
  - Automatic Sorting Back-Up
  - End of Line Sorting

POWERSCAN™ PBT9501

TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS

Bluetooth® Wireless Technology	Piconet: Max. 7 readers per radio receiver (cradle and commercial dongle)
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: Exceeds 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	Autodiscriminates 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	Lithium-Ion, 3350 mAh
Charge Time	External Power: 4.5 Hours; Host Power: 10 hours
Reads per Charge	Continuous Reading: 60,000+ (typical @ 25 ºC)
Cradle Indicator LEDs	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
Cradle Consumption and DC Input Supply Range	Volt 10-30 VDC; Power <8W*; Max 500mA when in host/bus powered mode* *Typical input current measured under factory default configuration.
Operating (Typical)	150 mA @ 10 VDC
Input Voltage	External Power:10 - 30 VDC, POT: 5 VDC +/- 10%

ENVIRONMENTAL

Ambient Light	0 - 100,000 lux
Drop Resistance	Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto a concrete surface PBT9501: Withstands 50 drops from 2 m / 6.6 ft onto a concrete surface
ESD Protection (air discharge)	20 kV
Humidity (non-condensing)	95%
Particulate and Water Sealing	IP65
Temperature	Operating: -20 to 50 °C / -4 to 122 °F Battery Charging: 0 to 40 °C / 32 to 104 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

Interfaces	Keyboard Wedge RS-232; USB: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS

Colors Available	Yellow/Black
Dimensions	Cradle: 24 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in PBT9501: 21.2 x 11 x 7.4 cm / 8.3 x 4.3 x 2.9 in
Weight	PBT9501-RB, PBT9501-HPRB, PBT9501-DPMRB: 400 g / 14.1 oz

READING PERFORMANCE

Image Capture	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
Imager Sensor	PBT9501: 864 x 544; PBT9501-HP: 1280 x 1024
Light Source	Aiming: 630 - 680 nm VLD Illumination: White LEDs
Print Contrast Ratio (minimum)	15%
Reading Angle	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
Reading Indicators	Datalogic's 3GL (Three Green Lights) technology and loud beeper for good-read feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs
Resolution (maximum)	PBT9501: 1D Codes: 4 mil; 2D Codes: 7.5 mil PBT9501-HP: 1D Codes: 2.5 mil; 2D Codes: 4 mil

READING RANGES

Typical Depth of Field	Minimum distance determined by symbol length and scan angle; Printing resolution, contrast, and ambient light dependent.

PBT9501		**PBT9501-HP**	
4 mils	6 to 17 cm / 2.3 to 6.7 in	2.5 mils	2 to 6 cm / 0.8 to 2.3 in
7.5 mils Data Matrix	9 to 12 cm / 3.5 to 4.7 in	4 mils Data Matrix	2 to 6 cm / 0.8 to 2.3 in
10 mils Data Matrix	4 to 18 cm / 1.5 to 7 in	10 mils Data Matrix	2 to 20 cm / 0.8 to 7.8 in
10 mils PDF417	2 to 25 cm / 0.8 to 9.8 in	10 mils PDF417	2 to 30 cm / 0.8 to 11.8 in
13 mils	4 to 45 cm / 1.5 to 17.7 in	13 mils	3 to 60 cm / 1.1 to 23.6 in
20 mils	4 to 55 cm / 1.5 to 21.6 in	20 mils	3 to 70 cm / 1.1 to 27.5 in
40 mils	4 to 85 cm / 1.5 to 33.4 in	40 mils	3 to 110 cm / 1.1 to 43.3 in

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; Complies to R.E.A.C.H
Laser Classification	Caution Laser Radiation - Do not stare into beam
LED Classification	IEC 62471 Class 1 LED

UTILITIES

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

WARRANTY

Warranty	3-Year Factory Warranty

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)

Cases/Holsters



HLS-P080 Universal Holster (HLS-8000)

Mounts/Stands



HLD-P080 Desk/Wall Holder (HLD-8000)



7-0404 Industrial Take-Up Reel

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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

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: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS

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 / 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

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

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

Warranty	3-Year Factory Warranty

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

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