

POWERSCAN™ PM9501



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 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 1.0 m / 3.3', depending on the bar code resolution. In addition, Datalogic's latest decoding software guarantees snappy reading in any type of environment.

MOBILITY ENHANCES PRODUCTIVITY

The Datalogic STAR Cordless System™ for narrow-band radio communications was developed specifically to maximize efficiency and reliability for handheld scanner data collection applications. The PowerScan PM9501 models are equipped with a new generation of the STAR-System that further improves the already outstanding features of versatility, ease of use and radio range.

The PM9501 series offers two display options: 4 configurable keys and a full 16-key keyboard. This increases interaction between the host and the user allowing a two-way exchange of information for more reliable and effective communications.

The BC9180 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.

FEATURES

- High-performance Liquid Lens allows one model to read standard, wide and high density codes
- Snappy omnidirectional reading
- Intuitive aiming system
- Soft white light illumination
- Available with optional display and 4 or 16-key keyboards
- High speed 433 MHz and 910 MHz radio communications
- Point-to-point and multi-point transmission
- Networking and seamless roaming
- Multiple interfaces available
- Ethernet Connectivity (Standard and Industrial)
- Lithium-Ion battery replaces in 3 seconds!
- Datalogic's Motionix™ motion-sensing technology
- Ergonomic shape
- 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



PANDA PRODUCTS
Barcode-Systeme GmbH



TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS	
<i>Datalogic STAR Cordless System™</i>	Effective Radiated Power: 433 MHz: <10 mW; 910 MHz: <50 mW Point-to-Point Configuration Multi-Point Configuration: Max. Readers per Radio Receiver: 16
<i>Radio Frequency</i>	433 MHz; 910 MHz
<i>Radio Range (Open Air)</i>	433 MHz: 200 m / 656 ft low speed; Frequency hopping 50 m / 164 ft high speed 910 MHz: 270 m / 886 ft low speed; 170 m / 558 ft high speed Seamless Roaming; Two Way Communications

DECODING CAPABILITY	
<i>1D / Linear Codes</i>	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
<i>2D Codes</i>	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code;
<i>Postal Codes</i>	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post;
<i>Stacked Codes</i>	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	
<i>Battery</i>	Lithium-Ion 3350 mAh Charge Time: External Power: 4.5 Hours; Host Power: 10 Hours
<i>Reads Per Charge</i>	Continuous Reading: 60,000+ (typical @ 25 °C)
<i>Cradle Indicator LEDs</i>	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
<i>Cradle Consumption and DC Input Supply Range</i>	Volt 10-30 VDC; Power <8W*; Max 500mA when in host/bus powered mode* *Typical input current measured under factory default configuration.
<i>Operating (Typical)</i>	150 mA @ 10 VDC
<i>Input Voltage</i>	External Power: 10-30 VDC; POT: 5 VDC +/- 10%

ENVIRONMENTAL	
<i>Ambient Light</i>	0 - 100,000 lux
<i>Drop Resistance</i>	Cradle: Withstands 50 drops from 1.2 m / 3.9 onto a concrete surface PM9501: Withstands 50 drops from 2.0 m / 6.6 onto a concrete surface
<i>ESD Protection (Air Discharge)</i>	20 kV
<i>Humidity (Non-Condensing)</i>	95%
<i>Particulate and Water Sealing</i>	IP65
<i>Temperature</i>	Operating: -20 to 50 °C / -4 to 122 °F Battery Charging: 0 to 45 °C / 32 to 113 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES	
<i>Interfaces</i>	Keyboard Wedge; RS-232; RS-485; USB: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS	
<i>Colors Available</i>	Yellow/Black
<i>Dimensions</i>	Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in PM9501: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in
<i>Display</i>	PM9501-D, PM9501-DK: Display Type: Graphic with White Backlight; Font Dimensions: User selectable (6 lines x 21 columns default); Screen Dimensions: 48 x 132 pixels
<i>Keypad</i>	PM9501-D: 4 Configurable Keys PM9501-DK: 16 Configurable Keys
<i>Weight</i>	PM9501-XX, PM9501-HPXX, 400 g / 14.1 oz PM9501-DXX, PM9501-DHPXX: 440 g / 15.5 oz PM9501-DKXX, PM9501-DKHPXX: 445 g / 15.7 oz

READING PERFORMANCE	
<i>Imager Sensor</i>	PM9501: 864 x 544; PM9501-HP: 1280 x 1024
<i>Light Source</i>	Aiming: 630 - 680 nm VLD; Illumination: White LEDs
<i>Print Contrast Ratio (Minimum)</i>	15%
<i>Reading Angle</i>	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
<i>Reading Indicators</i>	Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology and loud beeper for good-read feedback; Datalogic 'Green Spot' on the Code, Dual Good Read LEDs
<i>Resolution (Maximum)</i>	PM9501: 1D Codes: 4 mil; 2D Codes: 7.5 mil PM9501-HP: 1D Codes: 2.5 mil; 2D Codes: 4 mil

READING RANGES	
<i>Typical Depth of Field</i>	Minimum distance determined by symbol length and scan angle; Printing resolution, contrast, and ambient light dependent.
PM9501	PM9501-HP
4 mils	2.5 mils
7.5 mils Data Matrix	4 mils Data Matrix
10 mils Data Matrix	10 mils Data Matrix
10 mils PDF417	10 mils PDF417
13 mils	13 mils
20 mils	20 mils
40 mils	40 mils
6.0 to 17.0 cm / 2.3 to 6.7 in	2.0 to 6.0 cm / 0.8 to 2.3 in
9.0 to 12.0 cm / 3.5 to 4.7 in	2.0 to 6.0 cm / 0.8 to 2.3 in
4.0 to 18.0 cm / 1.5 to 7.0 in	2.0 to 20.0 cm / 0.8 to 7.8 in
2.0 to 25.0 cm / 0.8 to 9.8 in	2.0 to 30.0 cm / 0.8 to 11.8 in
4.0 to 45.0 cm / 1.5 to 17.7 in	3.0 to 60.0 cm / 1.1 to 23.6 in
4.0 to 55.0 cm / 1.5 to 21.6 in	3.0 to 70.0 cm / 1.1 to 27.5 in
4.0 to 85.0 cm / 1.5 to 33.4 in	3.0 to 110.0 cm / 1.1 to 43.3 in

SAFETY & REGULATORY	
<i>Agency Approvals</i>	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.
<i>Environmental Compliance</i>	Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.
<i>Laser Classification</i>	Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2
<i>LED Classification</i>	IEC 62471 Class 1 LED

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

WARRANTY	
<i>Warranty</i>	3-Year Factory Warranty

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ACCESSORIES

Base Stations/Chargers



BC9030-433 / BC9030-910 Base/Charger, Multi-Interface



BC9130-433 / BC9130-910 Base/Dual Charger, Multi-Interface
BC9160-433 / BC9160-910 Base/Dual Charger, Multi-Interface/RS-485
BC9180-433 / BC9180-910 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

Miscellaneous



SD9030 STAR System USB Industrial Dongle (433 or 910 MHz available)