POWERSCAN™ PM9501-AR

TECHNOLOGY DRIVEN

The PowerScan™ PM9000 series includes different models able to satisfy all customers' needs; the PM9501-AR is the 1D/2D Auto Range model with extra-long range capabilities. The PM9501-DAR is the intermediate model and includes a display and 4-key keypad. The ultimate PM9501-DKAR model features a display with a full 16-key keyboard. The PM9501-DKAR model significantly increases the sophistication of interaction with the host system and opens up new potential uses of the scanner, making it suitable for applications that would normally require a more expensive portable data terminal. The BC9180 base includes one model with two different Ethernet connections: Standard Ethernet and Industrial Ethernet protocols such as Ethernet IP and Modbus.

DATALOGIC'S STAR CORDLESS SYSTEM™

Narrow band radio communications with Datalogic's STAR Cordless System™ 2.0 provides the key to increased productivity and flexibility in the workplace. It offers scalable solutions from simple point-to-point applications to networking capabilities combined with seamless roaming for complex installations.

GOOD-READ FEEDBACK AND SUPERIOR READING PERFORMANCE

The PM9501-AR readers feature Datalogic's exclusive 3 Green Lights (3GL™) for superior good-read feedback. The patented 'Green Spot' directly on the code and dual Good Read LEDs on the top and back of the cap add increased visibility at any angle.

The PowerScan PM9501 Auto Range 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 because of a fast focus adjustment, allowing the operator to easily read a close up barcode and then focus at the top of a warehouse rack.

FEATURES

- Optics: Auto Range: > 20 m / 65 ft
- Fast Autofocus system, reads up to 3 mils
- Available in 3 models:
    - Basic
    - With Display and 4-Key Keypad
    - With Display and Full Alphanumeric Keypad
- Radio frequencies available in 433 or 910 MHz
- Point-to-point and multi-point transmission
- Seamless roaming
- Ethernet Connectivity (Standard and Industrial)
- Datalogic 3GL™ and loud beeper for good-read feedback
- User replaceable Lithium-Ion battery
- Operates over a wide range of temperatures
- Water and Particulate Sealing Rating: IP65
- Drop resistance to 2.0 m / 6.5 ft
- 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

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POWERSCAN PM9501-AR
TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

Datalogic STAR Cordless System	Point-to-Point Configuration Multi-Point Configuration: Max. Readers per Radio receiver: 16
Radio Frequency	433 MHz; 910 MHz
Radio Range (Open Air)	433 MHz: 50 m / 164 ft at 500 KB/s; 120 m / 394 ft at 19.2 KB/s 910 MHz: 140 m / 459 ft at 500 KB/s; 240 m / 787 ft at 36.8 KB/s, frequency hopping 50 m / 164 ft at 36.8 KB/s, fixed channel; Seamless Roaming; Two Way Communications

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; RS-485; 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 PM9501-AR: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in
Display	PM9501-DAR, PM9501-DKAR: Display Type: Graphic with White Backlight; Font Dimensions: User selectable (6 lines x 21 columns default); Screen Dimensions: 48 x 132 pixels
Keypad	PM9501-D: 4 Configurable Keys PM9501-DK: 16 Configurable Keys
Weight	PM9501-AR: 460.0 g / 16.2 oz PM9501-DAR: 485 g / 17.1 oz PM9501-DKAR: 485 g / 17.1 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.
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

BC9030-433 / 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)

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

Miscellaneous

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