

# POWERSCAN™ PM9300 AR LASER



## TECHNOLOGY DRIVEN

The PowerScan™ PM9300 series is a Laser Auto Range (AR) scanner with extra-long reading range capabilities for reading linear codes.

The series includes different models able to satisfy all customers' needs; the PM9300 is the basic cordless model, the PM9300-D intermediate model includes a display and 4-key keypad, and the ultimate PM9300-DK model features a display with a full 16-key keyboard. The PM9300-DK 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 PM9300 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.

## FEATURES

- Optics available in:
  - **Auto Range:** up to 11.5 m / 37.0 ft on reflective codes
- Available in 3 models:
  - Basic
  - With Display and 4-Key Keypad
  - With Display and Full Alphanumeric Keypad
- 100% Compatible with Datalogic's STAR Cordless System
- 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

- Manufacturing / Warehouse
- Retail / POS Check-out
- Transportation & Logistics / Warehouse / Sorting



# POWERSCAN™ PM9300 AR LASER

## TECHNICAL SPECIFICATIONS

### CORDLESS COMMUNICATIONS

|                                       |                                                                                                                                                                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Datalogic STAR Cordless System</b> | Point-to-Point Configuration;<br>Multi-Point Configuration: Max. Readers per Radio receiver: 16                                                                                                                                                       |
| <b>Radio Frequency</b>                | 433 MHz; 910 MHz                                                                                                                                                                                                                                      |
| <b>Radio Range (Open Air)</b>         | 433 MHz: 50 m / 164 ft at 500 KB/s;<br>100 m / 328 ft at 19.2 KB/s;<br>910 MHz: 50 m / 164 ft at 500 KB/s;<br>400 m / 1,312 ft at 36.8 KB/s, frequency hopping 50 m / 164 ft at 36.8 KB/s, fixed channel;<br>Seamless Roaming; Two Way Communications |

### DECODING CAPABILITY

|                               |                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PM9330-AR (Auto Range)</b> | GS1 DataBar™ linear codes, UPC/EAN, UPC/EAN P2/ P5 add ons, UPC/EAN Coupons, ISBN, Code 128, EAN 128, Code 39, Code 39 Full ASCII, Code 39 CIP, Code 32, Codabar, Interleaved 2 of 5, Standard 2 of 5, MSI, Code 93 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### ELECTRICAL

|                              |                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------|
| <b>Battery</b>               | Li-Ion 2150 mAh; Charge Time: External Power: 4 Hours;<br>Host Power: 10 Hours            |
| <b>Reads per Charge</b>      | 50,000+ (continuous reading)                                                              |
| <b>Cradle Indicator LEDs</b> | Battery Charging (Red); Charge Completed (Green);<br>Power/Data (Yellow)                  |
| <b>Current</b>               | Operating (Typical): External Power: Max. 10 W (charging);<br>POT: Max. 500 mA (charging) |
| <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<br>Storage/Transport: -40 to 70 °C / -40 to 158 °F |

### INTERFACES

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

### 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<br>PM9300-AR: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in                                                                   |
| <b>Display</b>          | PM9300-DAR, PM9300-DKAR: Display Type: Graphic with White Backlight; Font Dimensions: User selectable (6 lines x 21 columns default);<br>Screen Dimensions: 48 x 132 pixels |
| <b>Keypad</b>           | PM9300-DAR: 4 Configurable Keys<br>PM9300-DKAR: 16 Configurable Keys                                                                                                        |
| <b>Weight</b>           | PM9300-ARXX: 435.0 g / 15.3 oz<br>PM9300-DARXX / PM9300-DKARXX: 465.0 g / 16.4 oz                                                                                           |

### READING PERFORMANCE

|                                       |                                                                                                                                            |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Light Source</b>                   | 630 - 680 nm VLD                                                                                                                           |
| <b>Print Contrast Ratio (Minimum)</b> | 25%                                                                                                                                        |
| <b>Read Rate (Maximum)</b>            | PM9300-ARXX: 35 +/- 5 scans/sec.                                                                                                           |
| <b>Reading Angle</b>                  | PM9300-ARXX: Pitch: 60°; Roll (Tilt): +/- 10°;<br>Skew (Yaw): +/- 65°                                                                      |
| <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>           | PM93X0 Auto Range: 0.190 mm / 7.5 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.                                                                                                                                                                                                                                                                                                                                     |
| <b>PM9330 AR: Code 39</b>     | 7.5 mils: 9.0 to 50.0 cm / 3.5 to 19.7 in<br>10 mils: 14.0 to 85.0 cm / 5.5 to 33.5 in<br>15 mils: 15.0 to 155.0 cm / 5.9 to 61.0 in<br>20 mils: 15.0 to 220.0 cm / 5.9 to 86.6 in<br>40 mils: 20.0 to 340.0 cm / 7.9 to 133.9 in<br>55 mils: 25.0 to 420.0 cm / 9.8 to 165.4 in<br>Reflective Labels: Code 39: 70 mils: up to 9.0 m / 29.0 ft<br>100 mils: up to 11.5 m / 37 ft<br><b>Note:</b> Reading Performances may change with different symbologies |

### SAFETY & REGULATORY

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

### UTILITIES

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

### WARRANTY

|                 |                         |
|-----------------|-------------------------|
| <b>Warranty</b> | 3-Year Factory Warranty |
|-----------------|-------------------------|

## ACCESSORIES

### Base Stations/Chargers



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)

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

### Batteries/ Battery Chargers



FBP-PM90 Fixed Battery Pack  
MC-P090 Multiple Battery  
Charger, 4-Slots  
RBP-PM90 Removable  
Battery Pack

### Cases/Holsters



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

### Mounts/Stand



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)