The new PowerScan™ PM9100 series includes Datalogic’s innovative new technology, a green 'laser-like' acquisition system based on a pioneering miniaturized scan engine with outstanding 1D decoding capability. The PM9100 readers feature Datalogic’s exclusive 3GL™ (3 Green Lights) for superior good-read feedback.

**DATALOGIC’S STAR CORDLESS SYSTEM™**
The PM9100 reader is based on Datalogic’s STAR Cordless System™ 2.0, a proprietary narrow band radio system that offers scalable solutions from simple point-to-point applications to point-to-multipoint applications as well as network connections combined with seamless roaming for complex installations, making the STAR 2.0 Cordless System the most versatile and effective radio system, without interference caused by existing wireless solutions (Wi-Fi and/or Bluetooth).

**BUILT TO LAST**
The PM9100 reader has been tested to withstand extreme environmental conditions and is suitable for the toughest industrial applications.

**DEVELOPED WITH THE USER IN MIND**
The PowerScan PM9100 series includes different models able to satisfy all customers’ needs; the product is available in a basic cordless model and in two different versions with display and 4 or 16-key keypads. The BC9180 base includes one model with two different Ethernet connections: Standard Ethernet and Industrial Ethernet protocols such as Ethernet IP and Modbus.

PM9100 reader is fully supported with Datalogic’s Aladdin™ configuration program, providing a user-friendly interface for the start-up procedure and device programming.

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**FEATURES**
- Datalogic’s new linear imaging technology
- Compatible with Datalogic’s STAR Cordless System
- Datalogic 3GL™ and loud beeper for good-read feedback
- 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)
- User replaceable Lithium-Ion battery
- Operates over a wide range of temperatures
- Water and Particulate Sealing Rating: IP65
- Drop resistance to 2.0 m / 6.6 ft
- Decoding capability up to 2.5 mils
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

**INDUSTRY-APPLICATIONS**
- Manufacturing / Warehouse
  - Component Traceability
  - Work-in-Progress
  - Sub-Assembly
  - Quality Control
  - Time and Cost Analysis
  - Control Machines Set-up
  - In-line Inventory Control
- Retail / POS Check-out
- Transportation & Logistics / Warehouse / Sorting
**POWERSCAN™ PM9100**

### TECHNICAL SPECIFICATIONS

#### CORDLESS COMMUNICATIONS
- **DATALOGIC STAR CORDLESS SYSTEM**: Point-to-Point Configuration
- **RADIO FREQUENCY**: 433 MHz; 910 MHz
- **RADIO RANGE (OPEN AIR)**: 433 MHz: 50 m / 164 ft @ 500 KB/s; 910 MHz: 50 m / 164 ft @ 19.2 KB/s; 400 m / 1,312 ft @ 36.8 KB/s, frequency hopping; 50 m / 164 ft at 36.8 KB/s, fixed channel. Seamless Roaming; Two-Way Communications

#### DECODING CAPABILITY

#### ELECTRICAL
- **BATTERY**: Li-Ion 2150 mAh;
- **CHARGE TIME**:
  - External Power: 4 Hours;
  - Host Power: 10 Hours;
- **READES PER CHARGE**: 50000 (continuous reading);
- **CRADLE INDICATOR LEDS**: Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
- **CURRENT**:
  - External Power: Max. 10 W (charging);
  - POT: Max. 500 mA (charging);
  - 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 / 6.6 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
- **TEMPERATURE (STORAGE)**: -40 to 60 °C / -40 to 140 °F
- **ESD PROTECTION (Contact)**: 20 kV
- **ENVIRONMENTAL COMPLIANCE**: Complies to China RoHS; Complies to EU RoHS
- **AGENCY APPROVALS**: The product meets necessary safety and regulatory approvals for its intended use. See the Regulatory Addendum for details.

#### ENGLISH
- **WARRANTY**: 3-Year Factory Warranty

#### SAFETY & REGULATORY
- **LED CLASSIFICATION**: Product compliant according to IEC 62471
- **SAFETY & REGULATORY**: Datalogic Aladdin configuration program is available for download at no charge.
- **UTILITIES**: Datalogic Aladdin configuration program is available for download at no charge. JavaPOS and OPOS Utilities are available for download at no charge. Available on request
- **REGULATORY**: Datalogic Aladdin configuration program is available for download at no charge.

#### PDF
- **RESOLUTION (MAXIMUM)**: 2.5 mils
- **RESOLUTION (MINIMUM)**: 1.0 mils
- **RESOLUTION (TYPICAL)**: 5.0 mils
- **RESOLUTION (MAXIMUM)**: 5.0 mils

#### LIGHT SOURCE
- **LIGHT SOURCE**: Green LED
- **PRINT CONTRAST RATIO (MINIMUM)**: 15%
- **READING ANGLE**: Pitch: +/- 75°; Roll (Tilt): +/- 45°; Skew (Yaw): +/- 70°
- **READING INDICATORS**: Beeper; Datalogic Three Green Lights (3GL®)
- **READING RANGES**: Good Read Feedback; Datalogic 'Green Spot' on the Code, Dual Good Read LEDs; Good Transmission 2.5 mils
- **READING RANGES**: Maximum distance determined by symbol length and scan angle.
- **READING RANGES**: Minimum distance determined by symbol length and scan angle.
- **READING RANGES**: Printing resolution, contrast, and ambient light dependent.
- **READING RANGES**: Code 39
  - 5 mils: 3.0 to 32.0 cm / 1.2 to 12.6 in
  - 7.5 mils: 2.0 to 48.0 cm / 0.8 to 18.9 in
  - 10 mils: 2.0 to 60.0 cm / 0.8 to 23.6 in
  - 20 mils: 3.0 to 110.0 cm / 1.2 to 43.3 in
  - 40 mils: 3.0 to 230.0 cm / 1.2 to 90.6 in
- **READING RANGES**: EAN 13
  - 20.0 to 61.0 cm / 0.8 to 24.0 in
- **READING RANGES**: Note: Reading performances may change with different symbologies

#### UTILITIES
- **UTILITIES**: Datalogic Aladdin configuration program is available for download at no charge.

#### LED CLASSIFICATION
- **LED CLASSIFICATION**: Datalogic Aladdin configuration program is available for download at no charge.

#### SAFETY & REGULATORY
- **SAFETY & REGULATORY**: Datalogic Aladdin configuration program is available for download at no charge.

#### ACCESSORIES
- **ACCESSORIES**
  - **Base Stations/Chargers**:
    - **BC9030-433 / BC9030-910 Base/Charger, Multi-Interface**
    - **BC9130-433 / BC9130-910 Base/Charger, Multi-Interface**
    - **BC9160-433 / BC9160-910 Base/Charger, Multi-Interface**
    - **BC9180-433 / BC9180-910 Base/Charger, Multi-Interface**
    - **BC9190-433 / BC9190-910 Base/Charger, Multi-Interface/Ethernet**
  - **Cases/Holsters**:
    - **HLS-P080 Universal Holster**
    - **PC-P090 Protective Case/Belt Holster**
  - **Mounts/Stands**:
    - **VMK-P090 Vehicle Mount Kit**
    - **7-0404 Industrial Take-Up Reel**
    - **STD-9000 Hands Free Stand (STD-9000)**
    - **STD-9000 Hands Free Stand (STD-9000)**
    - **VMK-P090 Vehicle Mount Kit**
  - **Optional Ethernet (Standard, Industrial)**

#### INPUT VOLTAGE
- **INPUT VOLTAGE**:
  - **EXTERNAL**: 10 - 30 VDC; **POT**: 5 VDC +/- 10%

#### CURRENT
- **CURRENT**:
  - **EXTERNAL POWER**:
    - Max. 10 W (charging);
  - **POT**: Max. 500 mA (charging);
  - Host Power: 10 Hours

#### BATTERIES/BATTERY CHARGERS
- **BATTERIES/BATTERY CHARGERS**
  - **BCP-PM90 Removable Battery**
  - **MC-P090 Multiple Battery**
  - **FBP-PM90 Fixed Battery Pack**
  - **PC-P090 Protective Case/Belt Holster**

#### PHYSICAL CHARACTERISTICS
- **COLORS AVAILABLE**
- **DIMENSIONS**
  - Screen Dimensions: 48 x 132 pixels (6 lines x 21 columns default);
  - Printing resolution, contrast, and ambient light dependent.
  - Printing resolution, contrast, and ambient light dependent.

#### INTERFACE
- **INTERFACE**:
  - Keyboard Wedge; RS-232; RS-485;
  - USB: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

#### TYPICAL DEPTH OF FIELD
- **TYPICAL DEPTH OF FIELD**
  - 2.0 to 61.0 cm / 0.8 to 24.0 in
  - Note: Reading performances may change with different symbologies

#### WARRANTY
- **WARRANTY**: 3-Year Factory Warranty

#### PRODUCT SPECIFICATIONS
- **PRODUCT SPECIFICATIONS**

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