

# POWERSCAN™ RETAIL PM9501



## BUILT TO LAST

With the durability of the renowned industrial PowerScan family, the PowerScan imager is now being introduced into the retail sector with a new series of 'Retail' scanners. The PowerScan PM9501-RT imager is a cordless scanner featuring Datalogic's STAR Cordless System™ radio. The rugged mechanics of the PowerScan Retail series guarantees reliable long-term operation in retail activities. Repeated shocks at the POS checkout or outdoor usage do not inhibit the scanner's performance or reliability, protecting the retailer's investment. The IP65 rating further guarantees protection from damages caused by exposure to moisture.

## NOW WITH DIGITAL WATERMARKING

Digital watermarked bar codes include the same Global Trade Item Number (GTIN) data contained in the UPC/EAN symbologies, but repetitively distributes the GTIN data across the entire package without altering the packaging aesthetics.

The PowerScan Retail 9501 series is the first handheld series of scanners on the market capable of reading digital watermarks including Digimarc® Barcodes. This new application significantly reduces time at the checkout. Cashiers can scan items quicker without having to hunt for the bar code or lift bulky items from the trolley.

## MOBILITY ENHANCES PRODUCTIVITY

The PowerScan PM9501-RT Retail series is offered with or without a display and the 16-key keyboard. Wide radio coverage and the full keypad allow these mobile imagers to be used at the POS checkout as well as for inventory or shelf replenishment activities. When placed in the vertical cradle, the PowerScan Retail imager automatically switches into presentation mode. To coordinate with different POS systems, the imagers are offered in 2 colors: dark gray or white with a silver top cover.

## FEATURES

- Outstanding robustness (2.0 m / 6.6 ft drops) and an IP65 sealing rating
- Vertical cradle for presentation mode scanning
- Digital watermarks including Digimarc® Barcodes
- Datalogic's STAR 2.0 Cordless System™
- Standard Ethernet
- Snappy omnidirectional reading
- Intuitive aiming system
- Available with optional display and 16-key keyboard
- In-field replaceable window and cradle contacts
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good-read feedback
- Datalogic's Motionix™ motion-sensing technology
- Ergonomic shape
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRY - APPLICATION

- Retail:
  - Point of Sale Checkout
  - Shelf Replenishment
  - Goods Receiving
  - Inventory
- Healthcare:
  - Patient Tracking
- Commercial Services:
  - Postal
  - Banks
  - Public Administration
  - Utilities



# POWERSCAN™ RETAIL PM9501-RT

## TECHNICAL SPECIFICATIONS

### CORDLESS COMMUNICATIONS

<b>Datalogic STAR Cordless System™</b>	Effective Radiated Power: 433 MHz: <10 mW; 910 MHz: <50 mW Point-to-Point Configuration 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: Programmable Speed: 19.2 kb/s (default); 115.2 kb/s; 500 kb/s Typical Range: 80 m / 262.4 ft @ 19.2 kb/s; 910 MHz: Programmable Speed: 36.8 kb/s; 500 kb/s (default); Typical Range: 130 m / 426.5 ft @ 500 kb/s; 50 m / 164 ft @ 36.8 kb/s, fixed channel; Max. number of devices per base station (433 and 910 MHz): 16; Seamless Roaming; Two-Way Communications

### DECODING CAPABILITY

<b>Digital Watermarks</b>	Includes Digimarc® Barcodes
<b>1D / Linear Codes</b>	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
<b>2D Codes</b>	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
<b>Postal Codes</b>	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post
<b>Stacked Codes</b>	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

<b>Battery</b>	Lithium-Ion 3350 mAh Charge Time: External Power: 4.5 Hours; Host Power: 10 Hours
<b>Reads Per Charge</b>	60,000 + (typical @ 25 °C)
<b>Cradle Indicator LEDs</b>	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
<b>Current</b>	Volt 10-30 VDC; Power <8W; Max 500 mA when in host/bus powered mode
<b>Input Voltage</b>	External Power: 10-30 VDC; POT: 12 VDC +/- 10%

### ENVIRONMENTAL

<b>Ambient Light</b>	0 - 100,000 lux
<b>Drop Resistance</b>	Cradle: Withstands up to 50 drops from 1.2 m / 3.9 ft onto a concrete surface PM9501-RT: Withstands up to 50 drops from 2.0 m / 6.6 ft onto a concrete surface
<b>ESD Protection (Air Discharge)</b>	20 kV
<b>Humidity (Non-Condensing)</b>	95%
<b>Particulate and Water Sealing</b>	IP65
<b>Temperature</b>	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

<b>Interfaces</b>	RS-232; USB COM; USB HID Keyboard; Optional Ethernet
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### PHYSICAL CHARACTERISTICS

<b>Colors Available</b>	Dark Gray / Black; White / Light Gray
<b>Dimensions</b>	Cradle: 22.0 x 10.0 x 11.0 cm / 8.6 x 3.9 x 4.3 in PM9501-RT: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in
<b>Display</b>	PM9501-RT-DK: Display Type: Graphic with White Backlight; Font Dimensions: User selectable (6 lines x 21 columns default); Screen Dimensions: 48 x 132 pixels
<b>Keypad</b>	PM9501-RT-DK: 16 Configurable Keys
<b>Weight</b>	PM9501-XX-XX-RT: 400.0 g / 14.1 oz PM9501-XX-DKXX-RT: 440.0 g / 15.5 oz

### READING PERFORMANCE

<b>Imager Sensor</b>	864 x 544
<b>Light Source</b>	Aiming: 630 - 680 nm VLD; Illumination: Red LEDs
<b>Print Contrast Ratio (Minimum)</b>	15%
<b>Reading Angle</b>	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
<b>Reading Indicators</b>	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
<b>Resolution (Maximum)</b>	1D Codes: 4 mils; 2D Codes: 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>Digital Watermarking</b>	Maximum: 30 cm / 11.8 in
<b>1D / 2D Codes</b>	4 mils: 6.0 to 17.0 cm / 2.3 to 6.7 in 13 mils: 4.0 to 45.0 cm / 1.5 to 17.7 in 20 mils: 4.0 to 55.0 cm / 1.5 to 21.6 in 40 mils: 4.0 to 85.0 cm / 1.5 to 33.4 in 10 mils PDF417: 2.0 to 25.0 cm / 0.8 to 9.8 in 7.5 mils Data Matrix: 9.0 to 12.0 cm / 3.5 to 4.7 in 10 mils Data Matrix: 4.0 to 18.0 cm / 1.5 to 7.0 in

### SAFETY & REGULATORY

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

### 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
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## ACCESSORIES

### Base Stations/Chargers



BC9180-433 / BC9180-910  
Base/Dual Charger/Ethernet  
(Standard, Industrial)



BC9030-BK-433-BP / BC9030-BK-910-BP  
Base Presentation Charger, 433/910 MHz,  
Multi-Interface, Black



BC9030-WT-433-BP / BC9030-WT-910-BP  
Base Presentation Charger, 433/910 MHz,  
Multi-Interface, White

### Mounts/Stand



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