POWERSCAN™ 9100 SERIES

◊DATALOGIC

Innovative new laser-like technology with the benefits of a linear imager for outstanding 1D capabilities

NEW TECHNOLOGY COMBINED WITH PRODUCT RELIABILITY

The PowerScan 9100 series of scanners has expanded with new technology that provides an innovative laser-like green scanning line that implements the definition of a laser and the benefits of a linear imager.

The 9100 series includes a corded version (PD9130), a cordless version featuring Bluetooth® wireless technology (PBT9100) and a cordless version featuring Datalogic's STAR Cordless System™ 2.0, a proprietary narrow band radio system (PM9100).

BUILT TO LAST

The PowerScan 9100 series has been tested to withstand extreme environmental conditions and is suitable for the most rugged and demanding settings. A built-in tether hook for the cordless models can be suspended in the workplace, ensuring workplace productivity. A quick 3-second battery replacement combined with a single or multi-slot battery charger allows for continuous operation without interruption (cordless models).

ONE PRODUCT FOR MULTIPLE APPLICATIONS

All models have multi-interface capabilities: RS-232, Keyboard Wedge, and USB. The 9100 series is fully supported by Datalogic's Aladdin™ configuration program which provides a user-friendly interface for the start-up procedure and device programming. The 9100 series also feature Datalogic's exclusive 3GL™ (3 Green Lights) for superior good-read feedback.

The PowerScan 9100 series all share the same features with outstanding reliability and reading performance on 1D codes.

The cordless PBT9100 and PM9100 scanners can also be mounted on a forklift with a Vehicle Mount Terminal (VMT) providing a complete solution for industrial warehouse applications.

CONFIGURABLE TO FIT ALL APPLICATIONS

Based on Bluetooth 3.0 standard wireless technology, the PowerScan PBT9100 scanner can be configured to be Class 1 or Class 2 compliant. The scanner can be connected through the receiving base station to the host with a wide choice of interfaces or by connecting the scanner directly to any commercial or embedded Bluetooth compliant device.

The PowerScan PM9100 series includes different models to satisfy customers' needs; it is available in a basic cordless model and in two different models with a display and 4- or 16-key keypads.

FEATURES

- Datalogic's new linear imaging technology
- Green laser-like scanning line
- Datalogic's 3GL™ (Three Green Lights) and loud beeper for good-read feedback
- Decoding capability up to 2.5 mils
- Built-in multiple interfaces (RS-232, Keyboard Wedge and USB)
- Ergonomic shape provides hours of tireless data collection for the user
- PBT9100:
    Bluetooth 3.0 Class 1 compliant; Supports Bluetooth wireless technology SPP and HID profiles; Piconet with up to 7 scanners connected to the same base station
- PM9100:
    Compatible with Datalogic's STAR Cordless System 2.0; 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; Seamless roaming
- User replaceable Lithium-Ion battery (PBT9100 and PM9100)
- Ethernet connectivity (Standard and Industrial ~ PBT9100 and PM9100)
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRIES - APPLICATIONS

- Manufacturing Shop Floor
    - Component Traceability
    - Work-in-Progress
    - Sub-Assembly
    - Quality Control
    - Time and Cost Analysis
    - Control Machines Set-up
    - In-line Inventory Control
- Warehouse and Logistic Centers
    - Shipping / Receiving
    - Parcel Preparation
    - Picking / Put Away
    - Automatic Sorting Back-Up
    - End of Line Sorting

TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS

PBT9100	**Bluetooth Wireless Technology** Maximum number of devices per base station: 7; Profiles: HID (Human Interface Device), SPP (Serial Port Profile); Protocol: Bluetooth 3.0 Certified Class 1; Radio Frequency: 2.40 to 2.48 GHz; Radio Range (Open Air): Class 1: up to 100 m / 328 ft; Security: Data Encryption; Scanner Authentication
PM9100	**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; 100 m / 328 ft at 19.2 KB/s; 910 MHz: 50 m / 164 ft at 500 KB/s; 400 m / 1,312 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

9100 Series	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, IATA, Industrial 2 of 5, Standard 2 of 5, Code 11, MSI, Plessey, Code 93, Follet 2/5, Code 4, Code 5, Datalogic 2 of 5, Codablock F

ELECTRICAL

PBT9100 / PM9100	**Battery:** Li-Ion 3350 mA; Reads per Charge: 60,000+ (continuous reading); Charge Time External Power: 4.5 Hours; Host Power: 10 Hours; Cradle Indicator LEDs: Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow); **Current:** Operating (Typical): External Power: Max. 10 W (charging); POT: Max. 500 mA (charging); **Input Voltage:** External Power: 10-30 VDC; POT: 5 VDC +/- 10%
PD9100	**Current:** Operating (Typical): PD9130: 440 mA @ 4.5 V; 380 mA @ 5 V; 75 mA @30 V; Input Voltage: 4.5 - 30 VDC

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 Storage/Transport: –40 to 70 °C / –40 to 158 °F

INTERFACES

Interfaces	Keyboard Wedge, RS-232; USB: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS

Colors Available	Yellow/Black; Other colors and custom logo options are available SIG for minimum quantity purchase
Dimensions	Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in; All Models: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in
Display (PM9100)	PM9100-D, PM9100-DK: Display Type: Graphic with White Backlight; Font Dimensions: User selectable (6 lines x 21 columns default); Screen Dimensions: 48 x 132 pixels
Keyboard (PM9100)	PM9100-D: 4 Configurable Keys PM9100-DK: 16 Configurable Keys
Weight	PD9100: 340.0 g / 11.9 oz PM9100-XX/ PBT9100-XX: 405.0 g / 14.2 oz PM9100-DXX / PM9100-DKXX: 435.0 g / 15.3 oz

READING PERFORMANCE

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™) Good-read Feedback: Datalogic 'Green Spot' on the Code, Dual Good-read LEDs
Resolution (Maximum)	2.5 mils

READING RANGES

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast and ambient light dependent.
Code 39	**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 66.0 cm / 0.8 to 26.0 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 **EAN 13** 2.0 to 61.0 cm / 1.2 to 24.0 in Note: Reading performances may change with different symbologies

SAFETY & REGULATORY

Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use. See the Regulatory Addendum for details.
Environmental Compliance	Complies to China RoHS; Complies to EU RoHS
LED Classification	Product compliant according to IEC 62471

UTILITIES

Datalogic Aladdin™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS / JavaPOS	OPOS and JavaPOS 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)
 BC9030-BT Base/Charger, Multi-Interface
 BC9130-BT Base/Dual Charger, Multi-Interface
 BC9180-BT Base/Dual Charger/Ethernet
   (Standard, Industrial)

Batteries / Battery Chargers

FBP-PM91 Fixed Battery Pack
 MC-P090 Multiple Battery Charger, 4-Slots
 RBP-PM91 Removable Battery Pack

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)