## **POWERSCAN™ 9500 SERIES**

### **CDATALOGIC**

# 2D area imagers with omnidirectional reading thrive in rugged and indestructible environments



#### RUGGED INDUSTRIAL AREA IMAGERS

The PowerScan 9500 product series is Datalogic's premium line of rugged industrial handheld area imagers including a corded model (PD9500) and 2 cordless models with either Bluetooth® wireless technology (PBT9500) or Datalogic's STAR Cordless System $^{TM}$  2.0 (PM9500), a proprietary narrow band radio.

#### **NEW TECHNOLOGY**

The PowerScan 9500 imagers introduce a new technology with the 'Liquid Lens' feature which increases the depth of field and allows the reading of standard, wide and high density bar codes. Datalogic's Motionix™ motionsensing technology detects the natural actions of the operator to automatically switch the scanner into the desired scanning mode (handheld or presentation scanning). Additionally, the PowerScan 9500 family uses a soft-pulsed white illumination light resulting in reduced flashes, which is very gentle on the eyes and less troublesome to the operator during scan-intensive applications.

### GOOD-READ FEEDBACK AND SUPERIOR READING PERFORMANCE

The PowerScan 9500 imagers feature Datalogic's exclusive 3 Green Lights  $(3GL^{TM})$  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.

All models have multi-interface capabilities built in featuring the most popular interfaces: RS-232, RS-485, Keyboard Wedge and USB. The Datalogic Aladdin™ configuration program provides user-friendly features that simplify the start-up procedure, even for inexperienced users.

#### CORDLESS MODELS ARE SIMPLE TO USE AND DEPLOY

The PowerScan PBT9500 cordless model is based on Bluetooth 3.0 standard wireless technology, Class 1 Range (in open air); up to 100 m / 328 ft and is available in a Standard Range (SR) model.

The PowerScan PM9500 cordless model uses narrow band radio communications with Datalogic's STAR Cordless System™ 2.0 and provides increased productivity and flexibility in the workplace. The PM9501 model also offers two display options: 4 configurable keys and a full 16-key keyboard. This increases interaction between the host and the user allowing a two-way exchange of information for more reliable and effective communications.

#### **FEATURES**

- High-performance Liquid Lens allows one model to read standard, wide and high density codes
- · Snappy omnidirectional reading
- Intuitive aiming system
- Soft white light illumination
- Bluetooth 3.0 compliant: Class 1; Piconet with up to 7 scanners connected to the same
   base station.
- Multiple interfaces available
- Ethernet Connectivity (Standard and Industrial)
- Lithium-Ion battery replaces in 3 seconds!
- Datalogic's Motionix™ motion-sensing technology
- Ergonomic shape provides hours of tireless data collection for the user
- Image capture
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good-read feedback
- Water and Particulate Sealing Rating: IP65
- In-field replaceable window and cradle contacts
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI















#### **INDUSTRIES - APPLICATIONS**

- Entertainment
  - Access Control
  - Mobile Coupons
  - Ticket ValidationSecurity / Age Verification
  - Lottery
- Manufacturing Shop Floor:
  - Work-in-Progress
  - Sub-Assembly
  - · Component Tracking
  - Quality Control
- Time and Cost Analysis
- · Machine Replenishment / Configuration
- Line Inventory Control
- · Warehouse and Logistic Centers
  - Shipping / Receiving
  - Parcel Preparation
  - Picking / Put Away
  - Automatic Sorting Back-Up
  - End of Line Sorting

#### **POWERSCAN 9500 SERIES**

### TECHNICAL SPECIFICATIONS

WIRELESS COMMUNICATIONS	
PBT9500	Bluetooth Wireless Technology: Piconet: Max. 7 readers per radio receiver (cradle and commercial dongle); 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: Exceeds 100 m / 328 ft; Range distances are measured using the base station. Range with connection to other Bluetooth peripherals may show different results.  Security: Data Encryption; Scanner Authentication
PM9500	Effective Radiated Power: 433 MHz: <10 mW; 910 MHz: <50 mW; 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: 120 m / 393 ft low speed; 50 m / 164 ft high speed; 910 MHz: 220 m / 721 ft low speed; Frequency hopping 170 m / 558 ft high speed; Seamless Roaming; Two Way Communications
DECODING CAPABII	
1D / Linear Codes	Autodiscriminates 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	Lithium-Ion 3350 mAh; Charge Time: External Power: 4.5 Hours; Host Power: 10 Hours
Reads Per Charge	Continuous Reading: 60,000+ (typical @ 25 °C)
Cradle Indicator LEDs	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
Cradle Consumption and DC Input Supply Range	Volt 10-30 VDC; Power <8W*; Max 500mA when in host/bus powered mode* *Typical input current measured under factory default configuration. Operating (Typical): 150 mA @ 10 VDC
Input Voltage (PM9500/PBT9500)	External Power: 10-30 VDC; POT: 5 VDC +/- 10%
Current (PD9500)	Operating (Typical): PD9531/PD9531-HP: 335 mA PD9531-HPE: 220 mA @ 10 VDC Standby/Idle (Typical): PD95301/PD9531-HP: 120 mA PD9531-HPE: 60 mA @ 10 VDC
Input Voltage (PD9500)	PD9531/PD9531-HP: 5 VDC +/- 10% PD9531-HPE: 10-30 VDC
ENVIRONMENTAL	
Ambient Light	0 - 100,000 lux
Drop Resistance	Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto a concrete surface All models: Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface
ESD Protection (Air Discharge)	20 kV
Humidity (Non-condensing)	0 to 95%
Particulate and Water Sealing Temperature	IP65
INTERFACES	
Interfaces	Keyboard Wedge RS-232; USB: 0EM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS		
Colors Available	Yellow/Black	
Dimensions	Cradle: 24 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in Scanner: 21.2 x 11 x 7.4 cm / 8.3 x 4.3 x 2.9 in	
Display (PM9500)	PM9501-D, PM9501-DK: Display Type: Graphic with White Backlight; Font Dimensions: User selectable (6 lines x 21 columns default); Screen Dimensions: 48 x 132 pixels	
Keyboard (PM9500)	PM9501-D: 4 Configurable Keys PM9501-DK: 16 Configurable Keys	
Weight	PBT9501 and PM9501 models: 400 g / 14.1 oz PM9501-DKXX, PM9501-DKHPXX: 445 g / 15.7 oz PD9501: 330.0 g / 11.6 oz	
READING PERFORMANCE		
Image Capture	Graphic Formats: BMP, JPEG, TIFF Greyscale: 256, 16, 2; JPEG, TIFF	
Imager Sensor	9501: 864 x 544; 9501-HP: 1280 x 1024	
Light Source	Aiming: 630 - 680 nm VLD; Illumination: White LEDs	
Print Contrast Ratio (Min)	15%	
Reading Angle	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°	
Reading Indicators	Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology and loud beeperfor good-read feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs	
Resolution (Maximum)	9501: 1D Codes: 4 mil; 2D Codes: 7.5 mil 9501-HP: 1D Codes: 2.5 mil; 2D Codes: 4 mil	
READING RANGES		
Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast and ambient light dependent.	
9501     9501-HP       4 mils 6 to 17 cm / 2.3 to 6.7 in     2.5 mils 2 to 6 cm / 0.8 to 2.3 in       7.5 mils Data Matrix 9 to 12 cm / 3.5 to 4.7 in     4 mils Data Matrix 2 to 6 cm / 0.8 to 2.3 in       10 mils Data Matrix 2 to 18 cm / 1.5 to 7 in     10 mils Data Matrix 2 to 20 cm / 0.8 to 7.8 in       10 mils PDF417 2 to 25 cm / 0.8 to 9.8 in     10 mils PDF417 2 to 30 cm / 0.8 to 11.8 in       13 mils 4 to 45 cm / 1.5 to 17.6 in     13 mils 3 to 60 cm / 1.1 to 23.6 in       20 mils 3 to 70 cm / 1.1 to 27.5 in     40 mils 3 to 70 cm / 1.1 to 24.3 in		
SAFETY & REGULAT	TORY	
Agency Approvals	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.	
Environmental Compliance	Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.	
Laser Classification	Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2	
LED Classification	IEC 62471 Class 1 LED	
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	

### ACCESSURIES 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

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



#### Cases/Holsters

WARRANTY Warranty

HLS-P080 Universal Holster (HLS-8000)



#### **Mounts/Stands**

3-Year Factory Warranty

7-0404 Industrial Take-Up Reel HLD-P080 Desk/Wall Holder (HLD-8000) STD-P090 Hands Free Stand (STD-9000)



#### **Miscellaneous**

SD9030 STAR System
USB Industrial Dongle



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