POWERSCAN[™] 9500 SERIES

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™ 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

aladdin

- 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 Validation
- Security / 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

| 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 CAPABILITY | | |
| 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 | IP65 | |
| Temperature | 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 | | |
| Interfaces | Keyboard Wedge RS-232; USB: 0EM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial) | |

CESSORIE **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

Warrantv

HLS-P080 Universal Holster (HLS-8000)



Mounts/Stands

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







© 2016-2021 Datalogic S.p.A. and/or its affiliates. • All rights reserved. Without limiting the rights under copyright, no part of this documentation may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means, or for any purpose, without the express written permission of Datalogic Sp.A. and/or its affiliates. • Datalogic and the Datalogic logo are registered trademarks of Datalogic Sp.A. in many countries including the U.S. and the E.U. • QuickScan and 3GL are trademarks of Datalogic S.p.A. and/or its affiliates. • The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by Datalogic Group companies is under license. • All other trademarks and brands are property of their respective owners • Product specifications are subject to change without notice. • DS-POWERSCAN9500SERIES-EN Rev A 20210930

3-Year Factory Warranty



Minimum distance determined by symbol length and scan

angle. Printing resolution, contrast and ambient light

40 mils 4 to 85 cm / 1.5 to 33.4 in

10 mils Data Matrix 4 to 18 cm / 1.5 to 7 in

10 mils PDF417 2 to 25 cm / 0.8 to 9.8 in 13 mils 4 to 45 cm / 1.5 to 17.7 in

Colors Available

Display (PM9500)

Keyboard (PM9500)

Dimensions

Weight

Image Capture

Imager Sensor Light Source

Reading Angle

Reading Indicators

Resolution (Maximum)

Typical Depth of Field

4 mils 6 to 17 cm / 2.3 to 6.7 in

20 mils 4 to 55 cm / 1.5 to 21.6 in

9501

Print Contrast Ratio (Min)

Yellow/Black

Cradle: 24 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in

PM9501-D: 4 Configurable Keys

PD9501: 330.0 g / 11.6 oz

Dual Good Read LEDs

dependent.

15%

PM9501-DK: 16 Configurable Keys PBT9501 and PM9501 models: 400 g / 14.1 oz

Graphic Formats: BMP, JPEG, TIFF

Greyscale: 256, 16, 2; JPEG, TIFF 9501: 864 x 544: 9501-HP: 1280 x 1024

Scanner: 21.2 x 11 x 7.4 cm / 8.3 x 4.3 x 2.9 in PM9501-D, PM9501-DK: Display Type: Graphic with White

PM9501-DKXX, PM9501-DKHPXX: 445 g / 15.7 oz

Aiming: 630 - 680 nm VLD; Illumination: White LEDs

Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40° Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology and loud beeperfor good-read feedback: Datalogic 'Green Spot' on the Code,

9501: 1D Codes: 4 mil; 2D Codes: 7.5 mil

9501-HP: 1D Codes: 2.5 mil; 2D Codes: 4 mil

Backlight; Font Dimensions: User selectable (6 lines x 21 columns default); Screen Dimensions: 48 x 132 pixels

| SAFETY & REGULATORY | |
|--------------------------|---|
| 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 |
| WARRANTV | |

Miscellaneous

SD9030 STAR System USB Industrial Dongle (433 or 910 MHz available)