

## POWERSCAN™ PM9600 ODATALOGIC

# Everlasting handheld industrial scanners for 1D/2D barcode reading with top flexibility



### **ULTRA-RUGGED WITH NEW BALANCED ERGONOMICS!**

The PowerScan family of bar code readers are the ultimate industrial handheld scanners designed and constructed to withstand the toughest environmental conditions. The PowerScan 9600 imagers have an ultra-rugged design, an ergonomic shape with well-balanced weight to reduce operator stress during daily activities and an intuitive aiming system, allowing the highest first-pass reading rate while reducing unnatural wrist movement.

### MOBILITY ENHANCES PRODUCTIVITY

The PowerScan 9600 cordless model further enhances the operator efficiency and safety with Datalogic's STAR Cordless System™. Accurate power management allows long lasting battery life to always guarantee more than one shift of intensive scanning. The PowerScan 9600 scanner features Datalogic's Wireless Charging System. Based on inductive-charging technology, Datalogic's Wireless Charging System eliminates battery contacts and pins that often get dirty, bent, or broken over time − and this removes a key point of failure for devices used in industrial and retail functions.

### MODULARITY WITH THE BEST FLEXIBILITY

The BC9600 base/charger has a modular design and is available with multiple interface plug-ins for standard and industrial communication, such as RS-232, USB, Standard Ethernet and Industrial Ethernet protocols.

### **FEATURES**

- Snappy omnidirectional reading on 1D, stacked and 2D codes, postal codes
- Standard Range and High Performance models
- Water and Particulate Sealing Rating: IP65 and IP67; Cradle IP67; 10 million hits trigger
- Center of gravity design
- Modular cradle design allowing interface expansion
- White light illumination
- High visibility OLED Display with 4-Keys /16-Keys keypad options
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good-read feedback
- Datalogic's Motionix™ motion-sensing technology
- Wireless Charging reducing total cost of ownership
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI.

### **INDUSTRY - APPLICATION**

- 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 PM9600**

## TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS		
Datalogic STAR Cordless System™	Radio Frequency: 433 MHz; 910 MHz; Effective Radiated Power: 433 MHz: < 10 mW; 910 MHz: < 50 mW; Point-to-Point/Multi-Point Configuration; Max. Readers per Radio Receiver: 16; Two Way Communications. Radio Range (Open Air): 433 MHz: 150 m / 492 ft low speed; 100 m / 328 ft high speed 910 MHz: 230 m / 754 ft low speed; Frequency hopping; 180 m / 590 ft high speed	

	low speed; 100 m / 328 ft high speed
	910 MHz: 230 m / 754 ft low speed; Frequency hopping; 180 m / 590 ft high speed
DECODING CAPABI	
1D / Linear Codes	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D Codes	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Codee; Dot 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
Digital Watermarking	Digimarc Barcodes (HP and DC models)
ELECTRICAL	
Battery	Battery Type: Lithium-Ion: 3350 mAh Charge time @ 12 VDC: 2.5 hours to charge up to 95%, 3.2 hours to charge 100%, External Power. Reads per charge: 80,000
Current	Charging (Typical) < 15 W Scanner only: 480 mA @ 3.7 V (Operative) Cradle only: 150 mA @ 5 V (Operative)
Input Voltage	Host powered: 5V DC ± 5% or 10 - 30 VDC External power supply: 10 - 30 VDC ± 5%
ENVIRONMENTAL	
Ambient Light	0 - 100,000 lux
Drop Resistance	Withstands 50 drops from 2.5 m / 8.2 ft @ 20 °C / 68 °F; Withstands 50 drops from 2.0 m / 6.6 ft @ -20 °C / -4 °F
Trigger Resistance	Withstands 10 million hits
ESD Protection (Air Discharge)	20 kV
Humidity (Non-Condensing)	0 - 95%
Particulate and Water Sealing	IP67 and IP65; Cradle IP65 (specific models)
Temperature	Operating: $-20$ to $50$ °C / $-4$ to $122$ °F Storage/Transport: $-40$ to $70$ °C / $-40$ to $158$ °F Charging: $0$ to $40$ °C / $32$ to $104$ °F nominal; $0$ to $35$ °C / $32$ to $95$ °F ideal
INTERFACES	
Interfaces	RS-232 / USB / Keyboard Wedge Multi-Interface / Ethernet and Industrial Protocols

PHYSICAL CHARAC	TERISTICS	
Colors Available	Yellow/Black	
Dimensions H x L x W	19.8 x 14.0 x 7.	9 cm / 7.8 x 5.5 x 3.1 in
Display		1.8" OLED graphic display; ns: User selectable.
Keypad	PM9600-D: 4 K	eys, PM9600-DK: 16 Keys; Configurable
Weight		9
READING PERFORM	IANCE	
Imager Sensor	1280 x 800 pixe	els
Light Source	Aiming: 630 - 6 Illumination: W	80 nm VLD hite LED reading light
Print Contrast Ratio (Minimum)	15%	
Reading Angle	Pitch: +/- 52°; F	Roll (Tilt): 360°; Skew (Yaw): +/- 52°
Field Of View	SR and HP: 38°	H, 24° V
Reading Indicators	(Three Green Li	able Tone and Volume); Datalogic's 3GL™ ghts) technology for good-read feedback; n Spot' on the Code; Dual Good Read ı.
Resolution (Maximum)		3 mil; 2D Codes: 6 mil 2.5 mil; 2D Codes: 4 mil
READING RANGES		
Typical Depth of Field		nce determined by symbol length and scan resolution, contrast, and ambient light
SR Models Code 128 5 mils: 6.4 to 30.9 cm / 2.5 to 12.2 in 20 mils: 4 to 103.7 cm / 1.6 to 40.8 in 40 mils: 5.5 to 175 cm / 2.2 to 68.9 in EAN/UPC 13 mils: 4 to 67.5 cm / 1.5 to 26.5 in DataMatrix 10 mils: 6 to 30 cm / 2.5 to 11.8 in		HP Models Code 128 2.5 mils: 6.3 to 11.5 cm / 2.5 to 4.5 in 5 mils: 3.8 to 41 cm / 1.5 to 16.1 in 40 mils: 5.5 to 242.9 cm / 2.1 to 95.6 in EAN/UPC 13 mils: 4 to 120 cm / 1.5 to 40.2 in PDF417 10 mils: 0.5 to 46.1 cm / 0.2 to 18.1 in DataMatrix 10 mils: 4.2 to 32 cm / 1.6 to 12.6 in
SAFETY & REGULAT	ORY	
Agency Approvals	approvals for its The Regulatory	eets necessary safety and regulatory s intended use. Addendum for this product can be a complete list of certifications.
Environmental Compliance	Complies to Ch Complies to R.E	ina RoHS; Complies to EU RoHS; 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 LED	Class: Exempt

### **ACCESSORIES**

### **Base Stations / Chargers**



BC9630 Base station/charger Multi-Interface BC9631 Base station/charger Multi-Interface, IP65

### **Battery**



RBP-PM96 Removable battery

### **Multi-Battery Charger**

Datalogic Aladdin™

OPOS / JavaPOS

Warranty



MC-P096-M2 Multi Battery Charger 2 slots MC-P096-M4 Multi Battery Charger 4 slots MC-P096-E2 Extension modules 2 slots

Holder

download at no charge.

3-Year Factory Warranty

at no charge.



Datalogic Aladdin configuration program is available for

OPOS and JavaPOS Utilities are available for download

HLD-P096 Desk/Wall Holder (HLD-9600)



## POWERSCAN™ PD9630 SDATALOGIC

## Everlasting handheld industrial scanners for 1D/2D barcode reading with top flexibility



### **ULTRA-RUGGED WITH NEW BALANCED ERGONOMICS!**

The PowerScan family of bar code readers are the ultimate industrial handheld scanners designed and constructed to withstand the toughest environmental conditions. The PowerScan PD9630 imagers have an ultra-rugged design, an ergonomic shape with well-balanced weight to reduce operator stress during daily activities and an intuitive aiming system, allowing the highest first-pass reading rate while reducing unnatural wrist movement.

### THREE OPTIC OPTIONS TO FULFILL ANY CUSTOMER NEED

The PowerScan PD9630 area imagers are available in three different optics, to satisfy any customer need. The **Standard Range** optic is ideal for most of the applications requiring barcode reading at intuitive distance; the **High Performance** optic adds the capability to decode high density barcodes together with an increased depth of field on standard 1D/2D codes; the **Document Capture** model is thought for Wide Angle code reading and Document Capture applications.

### THE BEST FEEDBACK TO THE OPERATOR

The PD9630 area imagers also feature Datalogic's exclusive 3 Green Lights ( $3GL^{TM}$ ) for superior good-read feedback together with a loud beeper and vibration. The 'Green Spot' technology directly on the code and dual Good Read LEDs increase visibility at any angle. All models have multi-interface capabilities featuring the most popular interfaces: RS-232, USB and offer an optional Ethernet for standard or industrial uses.

Datalogic's Motionix<sup>™</sup> motion-sensing technology detects the natural actions of the operator to automatically switch the scanner into the desired scanning mode (handheld or presentation scanning).

### **FEATURES**

- $\bullet$  Snappy omnidirectional reading from contact to over 2.0 m / 6.5 ft
- · Datalogic's new instinctive 'frame' aimer
- Water and Particulate Sealing Rating: IP65 and IP67
- 10 million trigger hits
- White light illumination
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good-read feedback
- Datalogic's Motionix™ motion-sensing technology
- Ergonomic shape provides hours of tireless data collection for the user
- Supports 1D, stacked and 2D codes, postal codes and image capture
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI.

### **INDUSTRY - APPLICATION**

- Manufacturing Shop Floor:
  - Work-in-Progress
  - Sub-Assembly
  - Component Tracking
  - Quality Control
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- 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 PD9630**

### TECHNICAL SPECIFICATIONS

DECODING CAPABI	LITY
1D / Linear Codes	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D Codes	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Codee; Dot code
Postal Codes	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post
Digital Watermarking	Digimarc Barcodes (PD9630-HP and PD9630-DC)
ELECTRICAL	
Current	Operating (Typical): PD9630-SR: 200mA @ 5V; 120mA @ 12V PD9630-HP/ PD9630-DC: 280mA @ 5V / 140mA @ 12V Standby/Idle (Typical): 187mA @ 5V / 92mA @ 12V
Input Voltage	5 - 30 VDC ± 5%
ENVIRONMENTAL	
Ambient Light	0 - 100,000 lux
Drop Resistance	With stands 50 drops from 2.5 m / 8.2 ft @ 20 °C / 68 °F; With stands 50 drops from 2.0 m / 6.6 ft @ -20 °C / -4 °F
Tumble	5,000 @ 1 m / 3.3 ft
Trigger Resistance	Withstands 10 million hits
ESD Protection (Air Discharge)	20 kV
Humidity (Non-Condensing)	0 - 95%
Particulate and Water Sealing	IP67 and IP65
Temperature	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
Temperature INTERFACES	1 3
·	1 3
INTERFACES	Storage/Transport: -40 to 70 °C / -40 to 158 °F  RS-232 / USB
INTERFACES Interfaces	Storage/Transport: -40 to 70 °C / -40 to 158 °F  RS-232 / USB
INTERFACES Interfaces PHYSICAL CHARAC	Storage/Transport: -40 to 70 °C / -40 to 158 °F  RS-232 / USB  TERISTICS

READING PERFORMANCE	
Imager Sensor	PD9630-SR/HP: 1280 x 800 PD9630-DC: 1280 x 800 color sensor
Light Source	Aiming: 630 - 680 nm VLD Illumination: White LED reading light
Print Contrast Ratio (Minimum)	15%
Reading Angle	Pitch: +/- 52°; Roll (Tilt): 360°; Skew (Yaw): +/- 52°
Field Of View	SR and HP: 38° H, 24° V DC: 50° H, 33° V
Reading Indicators	Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology for good-read feedback; Datalogic 'Green Spot' on the Code; Dual Good Read LEDs; Vibration.
Resolution (Maximum)	PD9630-SR/PD9630-DC: 1D Codes: 3 mil; 2D Codes: 6 mil PD9630-HP: 1D Codes: 2.5 mil; 2D Codes: 4 mil

#### DECODING CAPABILITY

	Minimum distance determined by symbol length and scan
Typical Depth of Field	angle. Printing resolution, contrast, and ambient light
	dependent.

PD9630-SR Code 128

Code 128
5 mils: 6.4 to 30.9 cm / 2.5 to 12.2 in
20 mils: 4 to 103.7 cm / 1.6 to 40.8 in
40 mils: 5.5 to 175 cm / 2.2 to 68.9 in
EAN/UPC 13 mils: 4 to 67.5 cm / 1.5 to 26.5 in
DataMatrix 10 mils: 6 to 30 cm / 2.5 to 11.8 in

PD9630-DC 5 mils: 3.1 to 39.7 cm / 1.2 to 15.6 in 20 mils: 3.5 to 119.1 cm / 1.3 to 46.9 in DataMatrix 10 mils: 4.2 to 30.2 cm / 1.6 to 11.8 in

PD9630-HP

Code 128
2.5 mils: 6.3 to 11.5 cm / 2.5 to 4.5 in
5 mils: 3.8 to 41 cm / 1.5 to 16.1 in
20 mils: 4 to 157 cm / 1.6 to 61.8 in
40 mils: 5.5 to 242.9 cm / 2.1 to 95.6 in
EAN/UPC 13 mils: 4 to 120 cm / 1.5 to 40.2 in
PDF417 10 mils: 0.5 to 46.1 cm / 0.2 to 18.1 in
DataMatrix 4 mils: 6.5 to 9.3 cm / 2.5 to 3.6 in
DataMatrix 10 mils: 4.2 to 32 cm / 1.6 to 12.6 in

### SAFETY & REGULATORY

Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use.  The Regulatory Addendum 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 LED Class: Exempt
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**

### Cases / Holsters



HLS-P080 Universal Holster (HLS-8000)

### **Mounts / Stands**



STD-P096 Stand, Hands-free (STD-9600)



HLD-P096 Desk/Wall Holder (HLD-9600)



7-0404 Industrial Take-Up Reel