# POWERSCAN™ 9500-DPM EVO �∂ATALOGIC

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## **DPM TECHNOLOGY**

Direct Part Marking (DPM) is a process that allows users to imprint a bar code directly on an item instead of printing the code on a paper label. Different technologies are available to directly mark objects: laser/ chemical etching, dot peening and ink jet printing. Each of these methods have specific advantages and disadvantages in terms of durability, cost and ease of reading.

The PowerScan™ 9500-DPM Evo series of scanners are rugged handheld area imagers specifically addressed and capable of reading codes marked with DPM.

### **READING CAPABILITIES**

The PowerScan DPM series include the latest optics and software from Datalogic to make the reading of codes with DPM easy and intuitive. The typical reading distance is from contact to 4-5 cm / 1.5-1.9 in, depending on the DPM technology used, the code resolution, and the material and surface type. The scanner is also capable of reading standard bar codes on printed labels. High density optics allow the capture of very small, high-resolution codes in a range from near contact up to 15.0 cm / 5.9 in. The intuitive aiming system provides the highest first-pass reading rates. A soft pulsed white illumination light results in reduced flashes and is very gentle to the eyes.

## FULL CONNECIVITY

The PM9500 DPM Evo series offers the display option with 4 configurable keys. This increases interaction between the host and the user allowing a two-way exchange of information for more reliable and effective communications.

The BC9180 is provided with Standard Multi-Interface: USB-KBD, USB-COM, USB-OEM, RS-232 and Ethernet connectivity: Telnet, Web Server, Data Socket, Ethernet/IP.

### MOTIONIX<sup>™</sup> MOTION-SENSING TECHNOLOGY

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.





## FEATURES

- Enhanced Decoding software will support any kind of Direct Part Marking (DPM) technology
- Snappy omnidirectional reading
- Intuitive aiming system
- Soft white light illumination
- Available with optional display with 4-keys
- Datalogic's Motionix<sup>™</sup> motion-sensing
- technology
- Ergonomic shapeImage capture
- Image capture
   Datalogic's 3GL<sup>™</sup> (3 Green Lights) technology
- and loud beeper for good-read feedback
  Water and Particulate Sealing Rating: IP65
- Water and Particulate Sealing Rating: IP65
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI
- Cordless Products
- Bluetooth® 3.0 Compliant, Class 1
- STAR Cordless System™ available in 433 MHz or 910 MHz
- Ethernet Connectivity (Standard and Industrial)

## INDUSTRY-APPLICATIONS

- Manufacturing Shop Floor
  - Work-in-Progress
  - Sub-Assembly
  - Component Tracking
  - Quality Control
  - Time and Cost Analysis
  - Line Inventory Control

# POWERSCAN™ PD9500-DPM EVO �∂ATALOGIC

# TECHNICAL SPECIFICATIONS

DECODING CAPABILITY			
D / 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 STACKED CODES	Postnet; Royal Mail Code (RM4SCC) 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	composites		
CURRENT	Operating (Typical): 350 mA Standby/Idle (Typical): 120 mA		
INPUT VOLTAGE	5 VDC +/- 10%		
ENVIRONMENTAL			
AMBIENT LIGHT	0 - 100,000 lux		
DROP RESISTANCE	Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface		
ESD PROTECTION (AIR DISCHARGE)	20 kV		
HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING	0 - 95% IP65		
TEMPERATURE	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F		
INTERFACES			
INTERFACES	RS-232 / USB / Keyboard Wedge Multi-Interface		
PHYSICAL CHARACTERISTICS			
COLORS AVAILABLE	Yellow/Black; Other colors and custom logo options are available for minimum quantity		
DIMENSIONS	purchase. 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in		
WEIGHT	330.0 g / 11.6 oz		
READING PERFORMANCE			
DIRECT PART MARKING (DPM) CAPABILITY	Codes are readable when marked by laser or chemical etching or ink jet printed; Data Matrix codes are also readable when marked by dot		
IMAGE CAPTURE	peening Graphic Formats: BMP, JPEG, TIFF		
	Greyscale: 256, 16, 2; JPEG, TIFF		
IMAGER SENSOR	864 x 544		

LIGHT SOURCE Aiming: 630 - 680 nm VLD Illumination: White LED reading light PRINT CONTRAST RATIO (MINIMUM) 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 beeper for good-read feedback: Datalogic 'Green Spot' on the Code; Dual Good Read LEDs

**RESOLUTION (MAXIMUM)** 

Cases/Holsters

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ACCESSORIE:



HLS-P080 Universal Holster (HLS-8000)

#### Mounts/Stands



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

1D Codes: 2.5 mil; 2D Codes: 4 mil

EADING RANGES

#### PICAL DEPTH OF FIELD

epth of Field ranges on bar codes printed with DPM technology may vary depending the printing technology, the code type and the resolution of the code. Other factors clude the surface material the DPM technology is used on (metal, plastic, shiny or lished, opaque, etc.). The following specs represent standard bar codes that are aditionally printed black on white on paper labels.

2 mils	2.8 to 6.3 cm / 1.1 to 2.4 in
2.5 mils	2.5 to 7.8 cm / 0.9 to 3.0 in
5 mils	1.2 to 9.0 cm / 0.4 to 3.5 in
4 mils Data Matrix	2.6 to 5.2 cm / 1.0 to 2.0 in
5 mils Data Matrix	2.2 to 7.2 cm / 0.8 to 2.8 in
10 mils Data Matrix	2.0 to 10.5 cm / 0.8 to 4.1 in
5 mils PDF	1.2 to 9.0 cm / 0.4 to 3.5 in
10 mils PDF	1.0 to 12.5 cm / 0.4 to 4.9 in
13 mils EAN-13	2.5 to 16.0 cm / 0.9 to 6.3 in

#### FETY & REGULATORY

AGENCY APPROVALS ENVIRONMENTAL COMPLIANCE LASER CLASSIFICATION LED CLASSIFICATION UTILITIES	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. Complies to China RoHS; Complies to EU RoHS; Comples to R.E.A.C.H. Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2 IEC 62471 Class 1 LED
DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is
OPOS / JAVAPOS	available for download at no charge. JavaPOS Utilities are available for download at no charge. OPOS Utilities are available for download at no
	charge.

MOTE HOST DOWNLOAD

#### ARRANTY

ARRANTY

3-Year Factory Warranty

Available on request

• 7-0404 Industrial Take-Up Reel

# POWERSCAN™ PBT9500-DPM EVO �∂ATALOGIC

# CORDLESS COMMUNICATIONS ECHNICAL SPECIFICATIONS

BLUETOOTH WIRELESS TECHNOLOGY	Piconet: Max. Readers per Radio Receiver Using Commercial Dongle: 7; Using Cradle: 4			
PROFILES	HID (Human Interface Device) SPP (Serial Port Profile)			
PROTOCOL RADIO FREQUENCY	Bluetooth® 3.0 Compliant, Class 1 2.40 to 2.48 GHz			
RADIO RANGE (OPEN AIR)	Class 1: Exceeds 90 m/295 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			
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;			

Aztec Code: China Han Xin Code: Data Matrix: MaxiCode; Micro QR Code; QR Code; Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post; EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

Battery Type: Lithium-Ion 2150 mAh Charge Time: External Power: 4 Hours; Host

Battery Charging (Red); Charge Completed

Charging (Typical): External Power: 800 mA @ 10

External Power: 10-30 VDC; POT: 5 VDC +/- 10%

Continuous Reading: 30,000 +

(Green); Power/Data (Yellow)

VDC; POT: 500 mA @ 5 VDC

Power: 10 Hours

150 mA @ 10 VDC

#### ELECTRICAL

POSTAL CODES

STACKED CODES

BATTERY

READS PER CHARGE CRADLE INDICATOR LEDS

CURRENT

**OPERATING (TYPICAL)** INPUT VOLTAGE

#### **ENVIRONMENTAL**

AMBIENT LIGHT DROP RESISTANCE

ESD PROTECTION (AIR DISCHARGE) HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING **TEMPERATURE** 

0 - 100.000 lux Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto a concrete surface PBT9500: Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface 20 kV 95% IP65 Operating: -20 to 50 °C / -4 to 122 °F Battery  $\bar{Charging}$ : 0 to 45 °C / -32 to 113 °F Storage/Transport: -40 to 70 °C / -40 to 158 °

#### INTERFACES

INTERFACES

RS-232 / USB / Keyboard Wedge Multi-Interface; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS			
COLORS AVAILABLE DIMENSIONS	Yellow/Black Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in PBT9500: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in		
WEIGHT	PBT9500: 380.0 g / 13.4 oz		
READING PERFORMANCE			
DIRECT PART MARKING (DPM) CAPABILITY	Codes are readable when marked by laser or chemical etching or ink jet printed; Data Matrix codes are also readable when marked by dot peening		
IMAGE CAPTURE	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2		
IMAGER SENSOR	864 x 544		
LIGHT SOURCE	Aiming: 630 - 680 nm VLD Illumination: White LEDs		
PRINT CONTRAST RATIO (MINIMUM)	15% Diale ( (0) D (((T))) 2000 Cl (((()))		
READING ANGLE READING INDICATORS	Pitch:+/- 40°; Roll (Tilt): 360°; Skew (Yaw):+/- 40° Beeper (Adjustable Tone and Volume); Datalogic's 3GL <sup>™</sup> (Three Green Lights) technology and loud beeper for good-read feedback: Datalogic		
RESOLUTION (MAXIMUM)	'Green Spot' on the Code, Dual Good Read LEDs 1D Codes: 2.5 mil; 2D Codes: 4 mil		
READING RANGES			
on the printing technology, the code include the surface material the DPM	rinted with DPM technology may vary depending type and the resolution of the code. Other factors / technology is used on (metal, plastic, shiny or specs represent standard bar codes that are in paper labels.		
2 mils	2.8 to 6.3 cm / 1.1 to 2.4 in		
2.5 mils	2.5 to 7.8 cm / 0.9 to 3.0 in		
5 mils 4 mils Data Matrix	1.2 to 9.0 cm / 0.4 to 3.5 in 2.6 to 5.2 cm / 1.0 to 2.0 in		
5 mils Data Matrix	2.2 to 7.2 cm / 0.8 to 2.8 in		
10 mils Data Matrix	2.0 to 10.5 cm / 0.8 to 4.1 in		
5 mils PDF	1.2 to 9.0 cm / 0.4 to 3.5 in		
10 mils PDF 13 mils EAN-13	1.0 to 12.5 cm / 0.4 to 4.9 in 2.5 to 16.0 cm / 0.9 to 6.3 in		
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.		
	Contraction and Booking and Booking and State and State		

## LED CLASSIFICATION

LASER CLASSIFICATION

UTILITIES DATALOGIC ALADDIN™ Datalogic Aladdin configuration program is available for download at no charge **OPOS / JAVAPOS** JavaPOS Utilities are available for download at no charge; OPOS Utilities are available for download at no charge REMOTE HOST DOWNLOAD Available on request

WARRANTY

WARRANTY





BC9030-BT Base/ Charger, Multi-Interface



BC9130-BT Base/Dual Charger, Multi-Interface BC9180-BT Base/Dual Charger, Multi-Interface/Ethernet (Standard, Industrial) Cases/Holsters



HLS-P080 Universal Holster (HLS-8000)



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

7-0404 Industrial Take-Up Reel

Caution Laser Radiation - Do not stare into beam

CDRH Class II: IEC 60825 Class 2

IEC 62471 Class 1 LED

3-Year Factory Warranty

# POWERSCAN™ PM9500-DPM EVO �∂ATALOGIC

	CORDLESS COMMUNICATIONS		READING PERFORMANCE				
IONS	DATALOGIC STAR CORDLESS SYSTEM™	Effective Radiated Power: 433 MHz: <10 mW; 910 MHz: <50 mW Point-to-Point Configuration Multi-Point Configuration:	DIRECT PART MARKING (DPM) (		Codes are readable when marked by laser or chemical etching or ink jet printed; Data Matrix codes are also readable when marked by dot peening		
TAT	RADIO FREQUENCY RADIO RANGE (OPEN AIR)	Max. Readers per Radio Receiver: 32 433 MHz; 910 MHz 433 MHz: 100 m / 328 ft low speed;	IMAGER SENSOR LIGHT SOURCE		864 x 544 Aiming: 630 - 680 nm \ Illumination: White LEI		
. SPECIFICATIONS		50 m / 164 ft high speed 910 MHz: 150 m / 492 ft low speed; 80 m / 262 ft high speed	PRINT CONTRAST RATIO (MIN READING ANGLE READING INDICATORS				
	DECODING CAPABILITY	Seamless Roaming; Two Way Communications					
	1D / LINEAR CODES	Autodiscriminates all standard 1D codes			Read LEDs		
CHNICAL	2D CODES	including GS1 DataBar™ linear codes Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code;		RESOLUTION (MAXIMUM)		1D Codes: 4 mil; 2D Codes: 7.5 mil	
NIC	POSTAL CODES	Australian Post; China Post; IMB; Japanese Pos KIX Post; Planet Code; Portuguese Post; Postn					
TECHI	STACKED CODES	Royal Mail Code (RM4SCC); Swedish Post; EAN/JAN Composites; GS1 DataBar Composite: GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites	Depth of Field ranges on bar codes printed with DPM technology may vary depending s; on the printing technology, the code type and the resolution of the code. Other factors include the surface material the DPM technology is used on (metal, plastic, shiny or				
	ELECTRICAL	composites	2 mils 2.5 mils		2.8 to 6.3 cm / 1.1 to 2. 2.5 to 7.8 cm / 0.9 to 3.		
	BATTERY	Battery Type: Lithium-Ion 2150 mAh Charge Time: External Power: 4 Hours; Host Power: 10 Hours	5 mils 4 mils Data Matrix 5 mils Data Matrix		2.5 to 7.8 cm / 0.9 to 3.0 in 1.2 to 9.0 cm / 0.4 to 3.5 in 2.6 to 5.2 cm / 1.0 to 2.0 in 2.2 to 7.2 cm / 0.8 to 2.8 in		
	READS PER CHARGE Continuous Reading: 30,000 + CRADLE INDICATOR LEDS Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)		10 mils Data Matrix 5 mils PDF 10 mils PDF 13 mils EAN-13	5 mils PDF 10 mils PDF		4.1 in 5 in ₄.9 in 5.3 in	
	CURRENT	Charging (Typical): External Power: 800 mA @ 10 VDC; POT: 500 mA @ 5 VDC		IS IIIIS LAN-IS		111 0.1	
	OPERATING (TYPICAL) INPUT VOLTAGE	150 mA @ 10 VDC External Power: 10-30 VDC; POT: 5 VDC +/- 10%	SAFETY & REGULATORY AGENCY APPROVALS		The product meets necessary safety and		
	ENVIRONMENTAL				Quick Reference Guide	or its intended use. The for this product can be ete list of certifications.	
	onto a concrete surface PM9500-DPM: Withstands 50 drops fr / 6.6 ft onto a concrete surface ESD PROTECTION (AIR DISCHARGE) HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING TEMPERATURE Operating: -20 to 50 °C / -4 to 122 °F Battery Charging: 0 to 45 °C / -32 to 12	Cradle: Withstands 50 drops from 1.2 m / 3.9 ft		ICE	Complies to China RoH Complies to R.E.A.C.H.	S; Complies to EU RoHS;	
		PM9500-DPM: Withstands 50 drops from 2.0 n / 6.6 ft onto a concrete surface 20 kV	LASER CLASSIFICATION n LED CLASSIFICATION		Caution Laser Radiatio CDRH Class II: IEC 6082 IEC 62471 Class 1 LED	n - Do not stare into beam 5 Class 2	
		IP65	UTILITIES DATALOGIC ALADDIN™		Datalogic Aladdin confi	guration program is	
		Battery Charging: 0 to 45 °C / -32 to 113 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F		available for download at no charge JavaPOS Utilities are available for down		at no charge vailable for download at no	
	INTERFACES				charge; OPOS Utilities are available for download at no charge Available on request		
	INTERFACES	RS-232 / USB / Keyboard Wedge Multi-Interfa Optional Ethernet (Standard, Industrial)			, wandbie offrequest		
	PHYSICAL CHARACTERISTICS		WARRANTY		3-Year Factory Warran	ty	
	COLORS AVAILABLE PM9500-DPM EVO DIMENSIONS	Yellow/Black Display with 4 configurable keys Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in PM9500-DPM: 21.2 x 11.0 x 7.4 cm /	_		,	,	
	WEIGHT	8.3 x 4.3 x 2.9 in PM9500-DPM: 380.0 g/13.4 oz					
БS	Base Stations/Chargers		Cases/Holsters	ses/Holsters Mounts/S		Stands	
CESSORIES	• BC9030-433 / BC9030-910 • BC9030-433 / BC9030-910 • BC9130-433 / BC9130-910 Base/Dual Charger, Multi-Interface • BC9160-433 / BC9160-910 Base/Dual Charger,						
ACC	Base/Charger, Multi-Interface	Multi-Interface/RS-485 ■ BC9180-433 / BC9180-910 Base/Dual Charger, Multi-Interface/Ethernet (Standard, Industrial)	• HLS-P080 Universal Holster (HLS-8000)	■ HLD-P08 (HLD-800	0 Desk/Wall Holder )0)	ال 7-0404 Industrial Take-Up Reel	

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