## 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 shape
- Ergonomic snap
   Image 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
- EASEOFCARE Service Plans offer a wide range
- of service options to protect your investment, ensuring maximum productivity and ROI
- Cordless Products
  - Bluetooth<sup>®</sup> 3.0 Compliant, Class 1
  - STAR Cordless System<sup>™</sup> 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			
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 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			
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)	0 - 95%		
PARTICULATE AND WATER SEALING TEMPERATURE	IP65 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 purchase.		
DIMENSIONS	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		
	peening		
IMAGE CAPTURE	Graphic Formats: BMP, JPEG, TIFF		
	Grevscale: 256 16 2: IPEG TIEE		

RESOLUTION (MAXIMUM)

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RECT 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
IAGE CAPTURE	Graphic Formats: BMP, JPEG, TIFF
	Greyscale: 256, 16, 2; JPEG, TIFF
IAGER SENSOR	864 x 544
GHT SOURCE	Aiming: 630 - 680 nm VLD
	Illumination: White LED reading light
RINT CONTRAST RATIO (MINIMUM)	15%
EADING ANGLE	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
EADING 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
ESOLUTION (MAXIMUM)	
	1D Codes: 2.5 mil: 2D Codes: 4 mil

#### READING RANGES

#### YPICAL DEPTH OF FIELD

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

2 mils 2.5 mils 5 mils 4 mils Data Matrix 5 mils Data Matrix 10 mils Data Matrix 5 mils PDF 10 mils PDF	2.8 to 6.3 cm / 1.1 to 2.4 in 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 2.0 to 10.5 cm / 0.8 to 4.1 in 1.2 to 9.0 cm / 0.4 to 3.5 in 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
	2.5 00 10.0 0.17 0.5 00 0.5 11

#### AFETY & 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; Complies 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 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

#### VARRANTY

/ARRANTY

3-Year Factory Warranty

Available on request



ACCESSORIES



HLS-P080 Universal Holster (HLS-8000)

Mounts/Stands



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

• 7-0404 Industrial Take-Up Reel

## POWERSCAN™ PBT9500-DPM EVO �∂ATALOGIC

## CORDLESS COMMUNICATIONS **TECHNICAL 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	Bluetooth <sup>®</sup> 3.0 Compliant, Class 1
RADIO FREQUENCY	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;

POSTAL CODES

STACKED CODES

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

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 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)

COLORS AVAILABLE DIMENSIONS	Yellow/Black Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in		
WEIGHT	PBT9500: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in 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 LIGHT SOURCE	864 x 544 Aiming: 630 - 680 nm VLD		
PRINT CONTRAST RATIO (MINIMUM)	Illumination: White LEDs		
READING ANGLE READING INDICATORS	Pitch:+/- 40°; Roll (Tilt): 360°; Skew (Yaw):+/- 40 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)	1D Codes: 2.5 mil; 2D Codes: 4 mil		
READING RANGES			
	1 technology is used on (metal, plastic, shiny or specs represent standard bar codes that are n paper labels. 2.8 to 6.3 cm / 1.1 to 2.4 in 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 10 mils PDF	1.2 to 9.0 cm / 0.4 to 3.5 in 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		
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 bea 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	charge; OPOS Utilities are available for downloa		
OPOS / JAVAPOS REMOTE HOST DOWNLOAD			
REMOTE HOST DOWNLOAD	charge; OPOS Utilities are available for downloa at no charge		

ACCESSORIES **Base Stations/Chargers** 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

## 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) 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			
AT	RADIO FREQUENCY	Max. Readers per Radio Receiver: 32 433 MHz; 910 MHz	IMAGER SENSOR LIGHT SOURCE		864 x 544 Aiming: 630 - 680 nm VLD			
CHNICAL SPECIFICATIONS	RADIO RANGE (OPEN AIR)	433 MHz: 100 m / 328 ft low speed; 50 m / 164 ft high speed	PRINT CONTRAST RATIO (MIN	(MUMI)	Illumination: White LED	)s		
		910 MHz: 150 m / 492 ft low speed; 80 m / 262 ft high speed Seamless Roaming; Two Way Communications	READING ANGLE READING INDICATORS		Beeper (Adjustable Tor Datalogic's 3GL™ (Three	e Green Lights) technology		
	DECODING CAPABILITY		_		and loud beeper for good-read feedback: Datalogic 'Green Spot' on the Code, Dual Go Read LEDs			
	1D / LINEAR CODES 2D CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™linear codes Artes Code: China Lan Xin Code: Data Mateire	RESOLUTION (MAXIMUM)	RESOLUTION (MAXIMUM)		les: 7.5 mil		
		Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code;	READING PANGES					
	POSTAL CODES	Australian Post; China Post; IMB; Japanese Pos KIX Post; Planet Code; Portuguese Post; Postne Royal Mail Code (RM4SCC); Swedish Post;	<ul> <li>t;</li> <li>TYPICAL DEPTH OF FIELD</li> <li>Depth of Field ranges on bar codes printed with DPM technology may vary depending</li> <li>s;</li> <li>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 polished, opaque, etc.). The following specs represent standard bar codes that are traditionally printed black on white on paper labels.</li> </ul>					
TECH	STACKED CODES	EAN/JAN Composites; GS1 DataBar Composite: GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites						
	ELECTRICAL		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;	5 mils 4 mils Data Matrix 5 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 2.2 to 7.2 cm / 0.8 to 2.8 in			
	Host Power: 10 Hours READS PER CHARGE Continuous Reading: 30,000 + CRADLE INDICATOR LEDS Battery Charging (Red); Charge Completed		10 mils Data Matrix 5 mils PDF 10 mils PDF		2.0 to 10.5 cm / 0.8 to 4.1 in 1.2 to 9.0 cm / 0.4 to 3.5 in			
	CURRENT	(Green); Power/Data (Yellow) Charging (Typical): External Power:	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			
	OPERATING (TYPICAL)	800 mA @ 10 VDC; POT: 500 mA @ 5 VDC 150 mA @ 10 VDC	SAFETY & REGULATORY					
	INPUT VOLTAGE	External Power: 10-30 VDC; POT: 5 VDC +/- 10%	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. Complies to China RoHS; Complies to EU RoHS;			
	ENVIRONMENTAL           AMBIENT LIGHT         0 - 100,000 lux           DDDDDEFESTINE         0 - 100,000 lux		ENVIRONMENTAL COMPLIAN	ICE				
	ESD PROTECTION (AIR DISCHARGE)	Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto a concrete surface PM9500-DPM: Withstands 50 drops from 2.0 n / 6.6 ft onto a concrete surface 20 kV 95% IIP65 Operating: -20 to 50 °C / -4 to 122 °F Battery Charging: 0 to 45 °C / -32 to 113 °F	LASER CLASSIFICATION		Complies to R.E.A.C.H. Caution Laser Radiation - Do not stare into beam CDRH Class II: IEC 60825 Class 2			
			LED CLASSIFICATION	FICATION IEC				
	HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING		UTILITIES					
	TEMPERATURE		DATALOGIC ALADDIN™		Datalogic Aladdin configuration program is available for download at no charge			
		Storage/Transport: -40 to 70 °C / -40 to 158 °F	OPOS / JAVAPOS	OPOS / JAVAPOS Ja		JavaPOS Utilities are available for download at no charge; OPOS Utilities are available for download		
	INTERFACES		REMOTE HOST DOWNLOAD		at no charge Available on request			
	INTERFACES RS-232 / USB / Keyboard Wedge Multi-Interface Optional Ethernet (Standard, Industrial)		ce;					
			WARRANTY					
	PHYSICAL CHARACTERISTICS		WARRANTY		3-Year Factory Warran	ty		
	COLORS AVAILABLE     Yellow/Black       PM9500-DPM EV0     Display with 4 configurable keys       DIMENSIONS     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						
ES	Base Stations/Chargers		Cases/Holsters	Mounts	/Stands	V		
CESSORIES						6		
S	A lar	<ul> <li>BC9130-433 / BC9130-910 Base/Dual Charger,</li> </ul>				8		
Ш	BC9030-433 / BC9030-910	Multi-Interface	200					
$\bigcup$	Base/Charger, Multi-Interface	<ul> <li>BC9160-433 / BC9160-910 Base/Dual Charger, Multi-Interface/RS-485</li> <li>BC6400 / 22 / BC6100 010 Base / Dual Charger</li> </ul>						
A		<ul> <li>BC9180-433 / BC9180-910 Base/Dual Charger, Multi-Interface/Ethernet (Standard, Industrial)</li> </ul>	<ul> <li>HLS-P080 Universal Holster (HLS-8000)</li> </ul>	■ HLD-PO (HLD-80	180 Desk/Wall Holder 100)	<ul> <li>7-0404 Industrial Take-Up Reel</li> </ul>		

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#### Latest Hardware from top manufacturers

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  - Auditing services

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