# POWERSCAN™ 9500-DPM

## DATALOGIC



### **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 product series 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.

### SOFT WHITE ILLUMINATION

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.

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

Datalogic's Motionix™ motion-sensing technology detects the natural actions of the operator to automatically switch the scanner into the desired scanning mode.





### FEATURES

- Supports any kind of Direct Part Marked (DPM) code
- Snappy omnidirectional reading
- Intuitive aiming system
- Soft white light illumination
- Datalogic's Motionix<sup>™</sup> motion-sensing technology
- Ergonomic shape
- Image capture
- Datalogic's 3GL™ (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™ available in 433 MHz or 910 MHz

### INDUSTRY-APPLICATIONS

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

# POWERSCAN<sup>™</sup> PD9500-DPM

## **ODATALOGIC**

DECODING CAPABILITY		READING RANGES	
1D / LINEAR CODES 2D CODES POSTAL CODES STACKED CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code 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	on the printing technology, the c include the surface material the polished, opaque, etc.). The follow traditionally printed black on wh 2 mils 2.5 5 mils 2.5 5 mils 1.2 4 mils Data Matrix 2.6 5 mils Data Matrix 2.7 10 mils Data Matrix 2.7 10 mils PDF 1.2 10 mils PDF 1.0	r codes printed with DPM technology may vary depending the code type and the resolution of the code. Other factors the DPM technology is used on (metal, plastic, shiny or following specs represent standard bar codes that are n white on 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 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 4.1 in 1.2 to 9.0 cm / 0.4 to 3.5 in 1.0 to 10.5 cm / 0.4 to 4.9 in 2.5 to 16.0 cm / 0.9 to 6.3 in
CURRENT INPUT VOLTAGE	Operating (Typical): 350 mA Standby/Idle (Typical): 120 mA 5 VDC +/- 10%		
ENVIRONMENTAL			
AMBIENT LIGHT DROP RESISTANCE ESD PROTECTION (AIR DISCHARGE)	0 - 100,000 lux Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface 20 kV	SAFETY & REGULATORY AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can
HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING TEMPERATURE	0 - 95% IP65	ENVIRONMENTAL COMPLIANCE	be referred to for a complete list of certifications. Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.
TEMPERATORE	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F	LASER CLASSIFICATION	Complete to R.E.A.C.H. Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2
INTERFACES		LED CLASSIFICATION	IEC 62471 Class 1 LED
INTERFACES	RS-232 / USB / Keyboard Wedge Multi-Interface	UTILITIES	
PHYSICAL CHARACTERISTICS		DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is
COLORS AVAILABLE DIMENSIONS WEIGHT	Yellow/Black; Other colors and custom logo options are available for minimum quantity purchase. 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in 330.0 g / 11.6 oz	OPOS / JAVAPOS REMOTE HOST DOWNLOAD	available for download at no charge. JavaPOS Utilities are available for download at no charge. OPOS Utilities are available for download at no charge. Available on request
READING PERFORMANCE		WARRANTY	
DIRECT PART MARKING (DPM) CAPABILITY IMAGE CAPTURE IMAGER SENSOR LIGHT SOURCE	<sup>7</sup> 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 Graphic Formats: BMP, JPEG, TIFF Greyscale: 256, 16, 2; JPEG, TIFF 864 x 544 Aiming: 630 - 680 nm VLD	WARRANTY	3-Year Factory Warranty
PRINT CONTRAST RATIO (MINIMUM) READING ANGLE READING INDICATORS	Illumination: White LED reading light 15% Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40° Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology and loud		





ACCESSORIES

 HLS-P080: Universal Holster (HLS-8000)



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

• 7-0404 Industrial Take-Up Reel

# POWERSCAN™ PBT9500-DPM

## **ODATALOGIC**

	CORDLESS COMMUNICATIONS		PHYSICAL CHARACTERISTICS	
ATION9	BLUETOOTH WIRELESS TECHNOLOGY PROFILES	Piconet: Max. Readers per Radio Receiver Using Commercial Dongle: 7; Using Cradle: 4 HID (Human Interface Device)	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
F	DDOTOCOL	SPP (Serial Port Profile)	WEIGHT	PBT9500: 380.0 g / 13.4 oz
$\triangleleft$	PROTOCOL RADIO FREQUENCY	Bluetooth 3.0 Certified Class 1 2.40 to 2.48 GHz	READING PERFORMANCE	
ECIFIC	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.	DIRECT PART MARKING (DPM) CAPABILI	etching or ink jet printed; Data Matrix codes are also readable when marked by dot peening Graphic Formats: BMP, JPEG, TIFF;
SPE(	SECURITY Data I	Data Encryption; Scanner Authentication	IMAGER SENSOR	Greyscale: 256, 16, 2 864 x 544
S	DECODING CAPABILITY		LIGHT SOURCE	Aiming: 630 - 680 nm VLD Illumination: White LEDs
CAL	1D / LINEAR CODES 2D CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes Aztec Code; China Han Xin Code; Data Matrix;	PRINT CONTRAST RATIO (MINIMUM) READING ANGLE READING INDICATORS	15% Pitch:+/- 40°; Roll (Tilt): 360°; Skew (Yaw):+/- 40° Beeper (Adjustable Tone and Volume);
Z	POSTAL CODES	MaxiCode; Micro QR Code; QR Code; Australian Post; China Post; IMB; Japanese Post;	NEADING INDICATIONS	Datalogic's 3GL™ (Three Green Lights) technology and loud beeper for good-read feedback: Datalogic 'Green
Ū		KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post;	RESOLUTION (MAXIMUM)	Spot' on the Code, Dual Good Read LEDs 1D Codes: 2.5 mil; 2D Codes: 4 mil
	STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites;	READING RANGES	
		GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites	TYPICAL DEPTH OF FIELD Depth of Field ranges on bar codes printed with DPM technology may vary depending 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.	
	ELECTRICAL			
	BATTERY	Battery Type: Lithium-lon 2150 mAh Charge Time: External Power: 4 Hours; Host Power: 10 Hours	2.5 mils 2.5 5 mils 1.2	to 6.3 cm / 1.1 to 2.4 in to 7.8 cm / 0.9 to 3.0 in to 9.0 cm / 0.4 to 3.5 in
	READS PER CHARGE CRADLE INDICATOR LEDS	Continuous Reading: 30,000 + Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)	5 mils Data Matrix 2.2 10 mils Data Matrix 2.0	to 5.2 cm / 1.0 to 2.0 in to 7.2 cm / 0.8 to 2.8 in to 10.5 cm / 0.8 to 4.1 in
		Charging (Typical): External Power: 800 mA @ 10 VDC; POT: 500 mA @ 5 VDC	10 mils PDF 1.0	to 9.0 cm / 0.4 to 3.5 in to 12.5 cm / 0.4 to 4.9 in to 16.0 cm / 0.9 to 6.3 in
	OPERATING (TYPICAL) INPUT VOLTAGE	150 mA @ 10 VDC External Power: 10-30 VDC; POT: 5 VDC +/- 10%	SAFETY & REGULATORY	
	ENVIRONMENTAL		AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference
	AMBIENT LIGHT	0 - 100,000 lux Cradle: Withstands 50 drops from 1.2 m / 3.9 ft		Guide for this product can be referred to for a complete list of certifications.
	DROP RESISTANCE	onto a concrete surface PBT9500-DPM: Withstands 50 drops from 2.0 m /	ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.
	ESD PROTECTION (AIR DISCHARGE)	6.6 ft onto a concrete surface 20 kV	LASER CLASSIFICATION	Caution Laser Radiation - Do not stare into beam CDRH Class II: IEC 60825 Class 2
	HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING	95% IP65	LED CLASSIFICATION	IEC 62471 Class 1 LED
	TEMPERATURE	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 °F		
			DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is available for download at no charge
	INTERFACES		OPOS / JAVAPOS	JavaPOS Utilities are available for download at no charge; OPOS Utilities are available for download a no charge
	INTERFACES	Keyboard Wedge RS-232;	REMOTE HOST DOWNLOAD	Available on request
		USB: OEM USB; USB COM; USB HID Keyboard	WARRANTY	
			WARRANTY	3-Year Factory Warranty
CESSORIES	Base Stations/Chargers	Cases/Holsters	Mounts/Stands	
ACC	• BC9030-BT: Base/Charger, • BC9 Multi-Interface Char	130-BT: Base/Dual • HLS-P080: rger, Multi-Interface Universal Holster (HLS-8000)	<ul> <li>HLD-P080</li> <li>Desk/Wall Holder (HLD-8000</li> </ul>	<ul> <li>7-0404 Industrial Take-Up Reel</li> </ul>

# POWERSCAN™ PM9500-DPM

## DATALOGIC

	CORDLESS COMMUNICATIONS		READING PERFORMANCE		
CATION	DATALOGIC STAR CORDLESS SYSTEM™ RADIO FREQUENCY	Effective Radiated Power: 433 MHz: <10 mW; 910 MHz: <50 mW Point-to-Point Configuration Multi-Point Configuration: Max. Readers per Radio Receiver: 32 433 MHz; 910 MHz	DIRECT PART MARKING (DPM) CAPABIL IMAGER SENSOR LIGHT SOURCE	ITY 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 864 x 544 Aiming: 630 - 680 nm VLD Illumination: White LEDs	
PECIFI(	RADIO RANĜE (OPEN AIR)	433 MHz: 100 m / 328 ft low speed; 50 m / 164 ft high speed 910 MHz: 150 m / 492 ft low speed; 80 m / 262 ft high speed Seamless Roaming; Two Way Communications	PRINT CONTRAST RATIO (MINIMUM) READING ANGLE READING INDICATORS	15% 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	
$\overline{\mathbb{O}}$	DECODING CAPABILITY		- RESOLUTION (MAXIMUM)	'Green Spot' on the Code, Dual Good Read LEDs 1D Codes: 4 mil; 2D Codes: 7.5 mil	
	1D / LINEAR CODES	Autodiscriminates all standard 1D codes including		,	
$\leq$	2D CODES	GS1 DataBar™ linear 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	READING RANGES		
HNIC	POSTAL CODES		TYPICAL DEPTH OF FIELD Depth of Field ranges on bar codes printed with DPM technology may vary depending 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.		
	STACKED CODES	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		to 6.3 cm / 1.1 to 2.4 in to 7.8 cm / 0.9 to 3.0 in	
	ELECTRICAL		5 mils 1.2	to 9.0 cm / 0.4 to 3.5 in	
	BATTERY	Battery Type: Lithium-Ion 2150 mAh Charge Time: External Power: 4 Hours; Host Power: 10 Hours	5 mils Data Matrix 2.2 10 mils Data Matrix 2.0	to 5.2 cm / 1.0 to 2.0 in to 7.2 cm / 0.8 to 2.8 in to 10.5 cm / 0.8 to 4.1 in	
	READS PER CHARGE CRADLE INDICATOR LEDS	Continuous Reading: 30,000 + Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)	10 mils PDF 1.0	to 9.0 cm / 0.4 to 3.5 in to 12.5 cm / 0.4 to 4.9 in to 16.0 cm / 0.9 to 6.3 in	
	CURRENT	Charging (Typical): External Power:	SAFETY & REGULATORY		
	OPERATING (TYPICAL) INPUT VOLTAGE	800 mA @ 10 VDC; POT: 500 mA @ 5 VDC 150 mA @ 10 VDC 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	
	ENVIRONMENTAL		_	Guide for this product can be referred to for a complete list of certifications.	
	AMBIENT LIGHT DROP RESISTANCE	0 - 100,000 lux Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto		Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.	
	ESD PROTECTION (AIR DISCHARGE)	a concrete surface PM9500-DPM: Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface 20 kV	LASER CLASSIFICATION	Caution Laser Radiation - Do not stare into beam CDRH Class II: IEC 60825 Class 2 IEC 62471 Class 1 LED	
	HUMIDITY (NON-CONDENSING)	95%	UTILITIES		
	PARTICULATE AND WATER SEALING TEMPERATURE	IP65 Operating: -20 to 50 °C / -4 to 122 °F	DATALOGIC ALADDIN <sup>™</sup>	Datalogic Aladdin configuration program is available	
		Battery Charging: 0 to 45 °C / -32 to 113 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F	OPOS / JAVAPOS	for download at no charge JavaPOS Utilities are available for download at no charge; OPOS Utilities are available for download at	
	INTERFACES	Keyboard Wedge; RS-232; RS-485; USB: OEM USB; USB COM; USB HID Keyboard	REMOTE HOST DOWNLOAD	no charge Available on request	
			WARRANTY		
	PHYSICAL CHARACTERISTICS		- WARRANTY	3-Year Factory Warranty	
	COLORS AVAILABLE DIMENSIONS WEIGHT	Yellow/Black 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 / 8.3 x 4.3 x 2.9 in PM9500-DPM: 380.0 g/13.4 oz			
Б	Base Stations/Chargers	Cases/Holsters Mounts/Stands			
CESSORIE	• BC9030-433 / BC9030-910:	• BC9130-433 / BC9130-910:			
ACC	Base/Charger, Multi-Interface		5-P080: HLD-P versal Holster (HLS-8000) Desk/1	080 • 7-0404 Industrial Wall Holder (HLD-8000) Take-Up Reel	

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