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 softpulsed white illumination light results in reduced flashes and is very gentle to the eyes.

MOTIONIX™ 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[™] 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® 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[™] PD9500-DPM

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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	on the printing technology, t include the surface material	
	Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites	2 mils 2.5 mils 5 mils 4 mils Data Matrix	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
ELECTRICAL		5 mils Data Matrix 10 mils Data Matrix	2.2 to 7.2 cm / 0.8 to 2.8 in 2.0 to 10.5 cm / 0.8 to 4.1 in
CURRENT	Operating (Typical): 350 mA Standby/Idle (Typical): 120 mA 5 VDC +/- 10%	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
INPUT VOLIAGE	5 VDC+7- 10%	13 mils EAN-13	2.5 to 16.0 cm / 0.9 to 6.3 in
ENVIRONMENTAL			
AMBIENT LIGHT	0 - 100,000 lux	SAFETY & REGULATORY	
DROP RESISTANCE ESD PROTECTION (AIR DISCHARGE)	Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface 20 kV	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 Operating: -20 to 50 °C / -4 to 122 °F	ENVIRONMENTAL COMPLIANCE	be referred to for a complete list of certification Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.
TEMPERATURE	Storage/Transport: -40 to 70 °C / -40 to 158 °F	LASER CLASSIFICATION	Complies to R.E.A.C.H. Caution Laser Radiation – Do not stare into bea 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	Yellow/Black; Other colors and custom logo options are available for minimum quantity purchase.	OPOS / JAVAPOS	available for download at no charge. JavaPOS Utilities are available for download at r charge. OPOS Utilities are available for download at no
DIMENSIONS WEIGHT	21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in 330.0 g / 11.6 oz	REMOTE HOST DOWNLOAD	charge. Available on request
READING PERFORMANCE		WARRANTY	
DIRECT PART MARKING (DPM) CAPABILI	Y Codes are readable when marked by laser or chemical etching or ink jet printed; Data Matrix codes are also readable when marked by dot	WARRANTY	3-Year Factory Warranty
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 READING INDICATORS	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40° Beeper (Adjustable Tone and Volume); Datalogic's 3GL ^m (Three Green Lights) technology and loud beeper for good-read feedback: Datalogic 'Green Stat's the Cade: Dual Good Boad EDC		
	Spot' on the Code; Dual Good Read LEDs 1D Codes: 2.5 mil; 2D Codes: 4 mil		



• HLS-P080: Universal Holster (HLS-8000)



Mounts/Stands

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

• 7-0404 Industrial Take-Up Reel



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POWERSCAN™ PBT9500-DPM �**∂ATALOGIC**

S	CORDLESS COMMUNICATIONS		PHYSICAL CHARACTERISTICS	
Ζ	BLUETOOTH WIRELESS TECHNOLOGY	Piconet: Max. Readers per Radio Receiver Using	COLORS AVAILABLE	Yellow/Black Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in
CAL SPECIFICATION	PROFILES	Commercial Dongle: 7; Using Cradle: 4 HID (Human Interface Device) SPP (Serial Port Profile) Bluetooth® 3.0 Compliant, Class 1 2.40 to 2.48 GHz Class 1: Exceeds 90 m/295 ft	DIMENSIONS	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
	PROTOCOL RADIO FREQUENCY			
	RADIO FREGGENCI RADIO RANGE (OPEN AIR)		READING PERFORMANCE	
		Range distances are measured using the base station. Range with connection to other Bluetooth peripherals may show different	DIRECT PART MARKING (DPM) CAPABILI	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
	SECURITY	results. Data Encryption; Scanner Authentication	IMAGE CAPTURE IMAGER SENSOR	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2 864 x 544
	DECODING CAPABILITY		LIGHT SOURCE	Aiming: 630 - 680 nm VLD Illumination: White LEDs
	1D / LINEAR CODES	Autodiscriminates all standard 1D codes	PRINT CONTRAST RATIO (MINIMUM)	15%
\geq	2D CODES	including 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 Mail Code (RM4SCC); Swedish Post; EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional;	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
T	ZD CODES			
\bigcirc	POSTAL CODES			
	STACKED CODES		RESOLUTION (MAXIMUM)	1D Codes: 2.5 mil; 2D Codes: 4 mil
			READING RANGES	
		MacroPDF; MicroPDF417; PDF417; UPC A/E	TYPICAL DEPTH OF FIELD	
		Composites	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-Ion 2150 mAh		
		Charge Time: External Power: 4 Hours; Host		to 6.3 cm / 1.1 to 2.4 in to 7.8 cm / 0.9 to 3.0 in
	READS PER CHARGE	Power: 10 Hours Continuous Reading: 30,000 +	5 mils 1.2	to 9.0 cm / 0.4 to 3.5 in
	CRADLE INDICATOR LEDS	Battery Charging (Red); Charge Completed		
	CURRENT	(Green); Power/Data (Yellow) Charging (Typical): External Power: 800 mA @ 10	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	
		VDC; POT: 500 mA @ 5 VDC		to 12.5 cm / 0.4 to 4.9 in
	OPERATING (TYPICAL) INPUT VOLTAGE	150 mA @ 10 VDC External Power: 10-30 VDC; POT: 5 VDC +/- 10%	13 mils EAN-13 2.5	to 16.0 cm / 0.9 to 6.3 in
			SAFETY & REGULATORY	
	ENVIRONMENTAL		AGENCY APPROVALS	The product meets necessary safety and
	AMBIENT LIGHT	0 - 100,000 lux Cradle: Withstands 50 drops from 1.2 m / 3.9 ft		regulatory approvals for its intended use. The Quick Reference Guide for this product can be
	DROP RESISTANCE	onto a concrete surface PBT9500: Withstands 50 drops from 2.0 m /	ENVIRONMENTAL COMPLIANCE	referred to for a complete list of certifications. Complies to China RoHS; Complies to EU RoHS;
	ESD PROTECTION (AIR DISCHARGE)	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 °	LASER CLASSIFICATION	Complies to R.E.A.C.H. Caution Laser Radiation - Do not stare into bea CDRH Class II: IEC 60825 Class 2
	HUMIDITY (NON-CONDENSING)			
	PARTICULATE AND WATER SEALING TEMPERATURE		LED CLASSIFICATION	IEC 62471 Class 1 LED
			UTILITIES	
			DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is
	INTERFACES		OPOS / JAVAPOS	available for download at no charge lavaPOS Utilities are available for download at no
	INTERFACES	Keyboard Wedge RS-232		charge; OPOS Utilities are available for download
		USB: OEM USB; USB COM; USB HID Keyboard	REMOTE HOST DOWNLOAD	at no charge Available on request
				·
			WARRANTY	
			WARRANTY	3-Year Factory Warranty
S	Base Stations/Chargers	Cases/Holsters	Mounts/Stands	
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CCESSORIES				1
S	BONA B	SIM SIM	Colorente and	
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\Box	BC9030-BT: Base/Charger, BC9 ⁻	130-BT: Base/Dual = HLS-P080:	■ HLD-P080	7-0404 Industrial Take-Up Reel

POWERSCAN™ PM9500-DPM

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	CORDLESS COMMUNICATIONS		READING PERFORMANCE		
SPECIFICATIONS	DATALOGIC STAR CORDLESS SYSTEM™ RADIO FREQUENCY RADIO RANGE (OPEN AIR)	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 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	DIRECT PART MARKING (DPM) CAPABI IMAGER SENSOR LIGHT SOURCE PRINT CONTRAST RATIO (MINIMUM) READING ANGLE READING INDICATORS	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	
				and loud beeper for good-read feedback: Datalogic 'Green Spot' on the Code, Dual Good	
	DECODING CAPABILITY 1D / LINEAR CODES	Autodiscriminates all standard 1D codes	RESOLUTION (MAXIMUM)	Read LEDs 1D Codes: 4 mil; 2D Codes: 7.5 mil	
A	2D CODES	including GS1 DataBar™ linear codes Aztec Code; China Han Xin Code; Data Matrix;			
\subseteq		MaxiCode; Micro QR Code; QR Code;	READING RANGES		
TECHN	POSTAL CODES	Australian Post; China Post; IMB; Japanese Post KIX Post; Planet Code; Portuguese Post; Postne 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	; 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		
	ELECTRICAL	Composites	2.5 mils 2.5	5 to 7.8 cm / 0.9 to 3.0 in 2 to 9.0 cm / 0.4 to 3.5 in	
	BATTERY READS PER CHARGE CRADLE INDICATOR LEDS	Battery Type: Lithium-Ion 2150 mAh Charge Time: External Power: 4 Hours; Host Power: 10 Hours Continuous Reading: 30,000 + Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)	4 mils Data Matrix 2.0 5 mils Data Matrix 2.0 10 mils Data Matrix 2.0 5 mils PDF 1.0 10 mils PDF 1.0	2 to 5.2 cm / 1.0 to 2.0 in 2 to 7.2 cm / 0.8 to 2.8 in 0 to 10.5 cm / 0.8 to 2.8 in 2 to 9.0 cm / 0.4 to 3.5 in 0 to 12.5 cm / 0.4 to 4.9 in 5 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 Guide for this product can be	
	ENVIRONMENTAL			referred to for a complete list of certifications. Complies to China RoHS; Complies to EU RoHS;	
	onto a concrete surface	Cradle: Withstands 50 drops from 1.2 m / 3.9 ft	LASER CLASSIFICATION	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	
	ESD PROTECTION (AIR DISCHARGE)	/ 6.6 ft onto a concrete surface 20 kV			
	HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING	95%	UTILITIES DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is	
	PARTICULATE AND WATER SEALING TEMPERATURE	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 °F	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	
	INTERFACES		REMOTE HOST DOWNLOAD	Available on request	
	INTERFACES	Keyboard Wedge; RS-232; RS-485;	WARRANTY		
		USB: OEM USB; USB COM; USB HID Keyboard	WARRANTY	3-Year Factory Warranty	
	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 PM9500-DPM: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in			
	WEIGHT	PM9500-DPM: 380.0 g/13.4 oz			
Ы	Base Stations/Chargers		Cases/Holsters Mon	unts/Stands	
ACCESSORIES	• 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		D-P080	
T		Saser Bourcharger, Moler Interface/ No-405	Universal Holster (HLS-8000) De	sk/Wall Holder (HLD-8000) Take-Up Reel	

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