POWERSCAN™ 9500-DPM

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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[™] 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[®] 2.0 Compliant: Class 1 or Class 2 configurable via software

INDUSTRY-APPLICATIONS

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

POWERSCAN[™] PD9500-DPM

Autodiscriminates all standard 1D codes

EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E

including GS1 DataBar™ linear codes Aztec Code; China Han Xin Code; Data Matrix;

MaxiCode; Micro QR Code; QR Code

Postnet; Royal Mail Code (RM4SCC)

Operating (Typical): 350 mA Standby/Idle (Typical): 120 mA

Composites

5 VDC +/- 10%

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ENVIRONMENTAL AMBIENT LIGHT DROP RESISTANCE

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

DECODING CAPABILITY

1D / LINEAR CODES

2D CODES

POSTAL CODES

STACKED CODES

ELECTRICAL CURRENT

INPUT VOLTAGE

0 - 100,000 lux Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface 20 kV 0 - 95% 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 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

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; JPEG, TIFF IMAGER SENSOR 864 x 544 Aiming: 630 - 680 nm VLD LIGHT SOURCE 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

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

RESOLUTION (MAXIMUM)

READING RANGES

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.

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

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 beam 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	JavaPOS Utilities are available for download at no charge.

charge

WARRANTY

REMOTE HOST DOWNLOAD

WARRANTY

3-Year Factory Warranty

Available on request

OPOS Utilities are available for download at no

POWERSCAN™ PBT9500-DPM

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CORDLESS COMMUNICATIONS		PHYSICAL CHARACTERISTICS	
BLUETOOTH WIRELESS TECHNOLOGY	Piconet: Max. Readers per Radio Receiver Using	COLORS AVAILABLE	Yellow/Black
PROFILES	Commercial Dongle: 7; Using Cradle: 4	DIMENSIONS	Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in
PROFILES	HID (Human Interface Device) SPP (Serial Port Profile)	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
PROTOCOL	Bluetooth 2.0 Certified Class 1 or Class 2	WEIGHT	F B F 5 5 6 6 . 5 6 6 7 13.4 62
	(Configurable)	READING PERFORMANCE	
RADIO FREQUENCY	2.40 to 2.48 GHz		
RADIO RANGE (OPEN AIR)	Class 1: Exceeds 90 m/295 ft Class 2: Exceeds 40 m/131 ft	DIRECT PART MARKING (DPM) CAPA	BILITY Codes are readable when marked by laser or chemical etching or ink jet printed; Data Matrix codes are also
	Range distances are measured using the base		readable when marked by dot peening
	station. Range with connection to other Bluetooth	IMAGE CAPTURE	Graphic Formats: BMP, JPEG, TIFF;
	peripherals may show different results.		Greyscale: 256, 16, 2
SECURITY	Data Encryption; Scanner Authentication	IMAGER SENSOR LIGHT SOURCE	864 x 544 Aiming: 630 - 680 nm VLD
			Illumination: White LEDs
DECODING CAPABILITY		PRINT CONTRAST RATIO (MINIMUN	VI) 15%
1D / LINEAR CODES	Autodiscriminates all standard 1D codes including	READING ANGLE	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
2D CODES	GS1 DataBar™ linear codes Aztec Code; China Han Xin Code; Data Matrix;	READING INDICATORS	Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology and
2D CODES	MaxiCode; Micro QR Code; QR Code;		loud beeper for good-read feedback: Datalogic 'Gree
POSTAL CODES	Australian Post; China Post; IMB; Japanese Post;		Spot' on the Code, Dual Good Read LEDs
	KIX Post; Planet Code; Portuguese Post; Postnet;	RESOLUTION (MAXIMUM)	1D Codes: 2.5 mil; 2D Codes: 4 mil
STACKED CODES	Royal Mail Code (RM4SCC); Swedish Post;		
STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar	READING RANGES	
	Stacked; GS1 DataBar Stacked Omnidirectional;	acked; GS1 DataBar Stacked Omnidirectional; TYPICAL DEPTH OF FIELD acroPDF; MicroPDF417; PDF417; UPC A/E Depth of Field ranges on bar codes printed with DPM technology may vary depending on the printing	
	MacroPDF; MicroPDF417; PDF417; UPC A/E		
	Composites		solution of the code. Other factors include the surface material the lastic, shiny or polished, opaque, etc.). The following specs represent
ELECTRICAL			nally printed black on white on paper labels.
BATTERY	Battery Type: Lithium-Ion 2150 mAh		,
	Charge Time: External Power: 4 Hours; Host Power:		2.8 to 6.3 cm / 1.1 to 2.4 in 2.5 to 7.8 cm / 0.9 to 3.0 in
READS PER CHARGE	10 Hours Continuous Reading: 30,000 +		l.2 to 9.0 cm / 0.4 to 3.5 in
CRADLE INDICATOR LEDS	Battery Charging (Red); Charge Completed (Green);		2.6 to 5.2 cm / 1.0 to 2.0 in
	Power/Data (Yellow)		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	Charging (Typical): External Power: 800 mA @ 10		l.2 to 9.0 cm / 0.4 to 3.5 in
OPERATING (TYPICAL)	VDC; POT: 500 mA @ 5 VDC 150 mA @ 10 VDC		l.0 to 12.5 cm / 0.4 to 4.9 in
INPUT VOLTAGE	External Power: 10-30 VDC; POT: 5 VDC +/- 10%	13 mils EAN-13 2	2.5 to 16.0 cm / 0.9 to 6.3 in
	······································	SAFETY & REGULATORY	
ENVIRONMENTAL			The support marks are supported as the support
AMBIENT LIGHT	0 - 100,000 lux	AGENCY APPROVALS	The product meets necessary safety and regulate approvals for its intended use. The Quick Referen
DROP RESISTANCE	Cradle: Withstands 50 drops from 1.2 m / 6.6 ft		Guide for this product can be referred to for a
	onto a concrete surface		complete list of certifications.
	PBT9500-DPM: Withstands 50 drops from 2.0 m /	ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS;
ESD PROTECTION (AIR DISCHARGE)	3.9 ft onto a concrete surface 20 kV	LASER CLASSIFICATION	Complies to R.E.A.C.H. Caution Laser Radiation - Do not stare into beam
HUMIDITY (NON-CONDENSING)	20 KV 95%		CDRH Class II: IEC 60825 Class 2
PARTICULATE AND WATER SEALING	IP65	LED CLASSIFICATION	IEC 62471 Class 1 LED
TEMPERATURE	Operating: -20 to 50 °C / -4 to 122 °F		
STORAGE/TRANSPORT	Battery Charging: 0 to 45 °C / -32 to 113 °F -40 to 70 °C / -40 to 158 °F	UTILITIES	
STORAGE/ TRANSFORT	-40 to 70 C7 -40 to 130 F	DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is
INTERFACES			available for download at no charge
		OPOS / JAVAPOS	JavaPOS Utilities are available for download at no
INTERFACES	Keyboard Wedge RS-232; RS-485; USB: OEM USB; USB COM; USB HID Keyboard		charge; OPOS Utilities are available for download no charge
	555. SEM 555, 555 COM, 555 HID Reyboard	REMOTE HOST DOWNLOAD	Available on request
		WARRANTY	
			2-Voar Eactory Warranty

WARRANTY

3-Year Factory Warranty

POWERSCAN™ 9500-DPM

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DPM TECHNOLOGY

Direct Part Marking (DPM) is a process for imprinting a bar code directly on an item or surface in a permanent manner instead of printing the code on a paper label that is adhered or attached to a surface. The intent is to create a permanent identifier for the item.

The main benefit of DPM technology is its durability. The permanent nature of the marking assures that the item can be identified throughout its full life cycle and throughout the supply chain, even while being exposed to harsh environmental conditions. Another important benefit of DPM technology is that it allows the marking of very small codes in limited spaces where a standard label cannot be applied in a reliable and stable mode.



Bar codes marked with DPM can be implemented on different surfaces and materials including plastic, metal, wood, rubber, leather, glass, etc.

DPM technology is used to enhance the supply chain traceability of car components, medical tools, military and defense equipment, fine jewelry, electronic parts or any application where there is the need to experience harsh chemical treatment, endure extreme conditions of moisture or temperature, include high-value assets or items that need to be identified throughout their lifetime.

DIFFERENT MARKING TECHNOLOGIES

There are multiple methods for directly marking objects:

- Laser Etching ÷.
- **Chemical Etching** н
- Dot Peening
- Ink Jet Printing

Each of these methods has specific advantages and disadvantages in terms of durability, cost and ease of reading.

EXAMPLES OF DPM MARKED CODES



Laser Etching



Chemical Etching



Dot Peening

Mounts/Stands



Ink Jet Printing



CESSORIES



Cases/Holsters



Universal Holster (HLS-8000)



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



7-0404 Industrial Take-Up Reel

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