POWERSCAN™ 9500-DPM EVO �∂ATALOGIC



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[™] 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

- 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[™] 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
 - 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

$\overline{\mathbf{N}}$
\leq
\bigcirc
\vdash
\triangleleft
Ũ
\Box
S
\triangleleft
Ũ
\leq
—
<u> </u>

DECODING CAPABILITY

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

ELECTRICAL

CURRENT

Operating (Typical): 350 mA Standby/Idle (Typical): 120 mA 5 VDC+/- 10%

ENVIRONMENTAL

AMBIENT LIGHT DROP RESISTANCE ESD PROTECTION (AIR DISCHARGE) HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING TEMPERATURE 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

DIMENSIONS

WEIGHT

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. 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in 330.0 g / 11.6 oz

beeper for good-read feedback: Datalogic 'Green Spot' on the Code; Dual Good Read LEDs

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% Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40° READING ANGLE READING INDICATORS Beeper (Adjustable Tone and Volume); Datalogic's 3GL[™] (Three Green Lights) technology and loud

RESOLUTION (MAXIMUM)

Cases/Holsters



ACCESSORIE

 HLS-P080 Universal Holster (HLS-8000)



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

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

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. OPOS Utilities are available for download at no

charge

REMOTE HOST DOWNLOAD

WARRANTY

WARRANTY

3-Year Factory Warranty

Available on request

• 7-0404 Industrial Take-Up Reel

POWERSCAN™ PBT9500-DPM EVO �∂ATALOGIC

	CORDLESS COMMUNICATIONS		РНҮ	SICAL CHARACTERISTICS		
CHNICAL SPECIFICATIONS	BLUETOOTH WIRELESS TECHNOLOGY	Piconet: Max. Readers per Radio Receiver Using Commercial Dongle: 7; Using Cradle: 4		DRS AVAILABLE ENSIONS	Yellow/Black Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in	
	PROTOCOL SPP (Se	HID (Human Interface Device) SPP (Serial Port Profile)	WEIG	GHT	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	
		Bluetooth 3.0 Certified Class 1 2.40 to 2.48 GHz 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.		DING PERFORMANCE		
	RADIO RANGE (OPEN AIR)		:h	CT 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 Graphic Formats: BMP, JPEG, TIFF;	
	SECURITY	Data Encryption; Scanner Authentication		ER SENSOR	Greyscale: 256, 16, 2 864 x 544	
S.	DECODING CAPABILITY			T SOURCE T CONTRAST RATIO (MINIMUM)	Aiming: 630 - 680 nm VLD; Illumination: White LEDs 15%	
\Box	1D / LINEAR CODES	Autodiscriminates all standard 1D codes including		DING ANGLE	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°	
IIC/	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 Mail Code (RM4SCC); Swedish Post;	READ	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	
<u> </u>	POSTAL CODES					
\bigcirc	STACKED CODES			DING RANGES		
Η	STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites; 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-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) Charging (Typical): External Power: 800 mA @ 10 VDC; POT: 500 mA @ 5 VDC	2 m er: 2.5 5 m	mils	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	
	READS PER CHARGE CRADLE INDICATOR LEDS		.). 5 m	4 mils Data Matrix 5 mils Data Matrix 10 mils Data Matrix 5 mils PDF 10 mils PDF	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	
	CURRENT		5 m			
	OPERATING (TYPICAL) INPUT VOLTAGE	150 mA @ 10 VDC External Power: 10-30 VDC; POT: 5 VDC +/- 10%		nils EAN-13	2.5 to 16.0 cm / 0.9 to 6.3 in	
				SAFETY & REGULATORY		
	ENVIRONMENTAL		AGEI	ENCY APPROVALS The product meets necessary safety an approvals for its intended use. The Quick		
	AMBIENT LIGHT DROP RESISTANCE	0 - 100,000 lux Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto a concrete surface		RONMENTAL COMPLIANCE	Guide for this product can be referred to for a complete list of certifications. Complies to China RoHS; Complies to EU RoHS;	
	PBT9500-DPM: Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface ESD PROTECTION (AIR DISCHARGE) 20 kV HUMIDITY (NON-CONDENSING) 95%			R CLASSIFICATION	Complies to R.E.A.C.H. Caution Laser Radiation - Do not stare into beam	
			LED	CLASSIFICATION	CDRH Class II: IEC 60825 Class 2 IEC 62471 Class 1 LED	
	PARTICULATE AND WATER SEALING TEMPERATURE	IP65 Operating: -20 to 50 °C / -4 to 122 °F	UTIL	ITIES		
	Battery Charging: 0 to 45 °C / -32 to 113 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F	DATA	ALOGIC ALADDIN™	Datalogic Aladdin configuration program is available for download at no charge		
	INTERFACES		OPO!	5 / JAVAPOS	JavaPOS Utilities are available for download at no charge; OPOS Utilities are available for download at	
	INTERFACES RS-232 / USB / Keyboard Wedge Multi-Interface; Optional Ethernet (Standard, Industrial)	; REM	OTE HOST DOWNLOAD	no charge Available on request		
			RRANTY			
			WAR	RANTY	3-Year Factory Warranty	
S	Base Stations/Chargers	Cases/Hol	sters	Mounts/Stands		
ACCESSORIE	Charger, Multi-Interface Multi BC91	30-BT Base/Dual Charger, -Interface 80-BT Base/Dual Charger, Multi- face/Ethernet (Standard, Industrial)) Universal Ho	olster • HLD-P080 Desi (HLD-8000)	k/Wall Holder -7-0404 Industrial Take-Up Reel	

POWERSCAN™ PM9500-DPM EVO �∂ATALOGIC

\mathbf{O}	CORDLESS COMMUNICATIONS		READING PERFORMANCE	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;	DIRECT PART MARKING (DPM) CAPABILITY IMAGER SENSOR LIGHT SOURCE PRINT CONTRAST RATIO (MINIMUM) READING ANGLE READING INDICATORS	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 15% Pitch:+/- 40°; Roll (Tilt): 360°; Skew (Yaw):+/- 40° Beeper (Adjustable Tone and Volume);		
		80 m / 262 ft high speed Seamless Roaming; Two Way Communications		Datalogic's 3GL™ (Three Green Lights) technology and loud beeper for good-read feedback: Datalogic		
	DECODING CAPABILITY		RESOLUTION (MAXIMUM)	'Green Spot' on the Code, Dual Good Read LEDs 1D Codes: 4 mil; 2D Codes: 7.5 mil		
AL	1D / LINEAR CODES 2D CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes Aztec Code; China Han Xin Code; Data Matrix;	READING RANGES			
\square		MaxiCode; Micro QR Code; QR Code;	TYPICAL DEPTH OF FIELD			
TECHNICAL	POSTAL CODES	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	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			
		DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites	printed black on white on paper labe 2 mils	2.8 to 6.3 cm / 1.1 to 2.4 in		
	ELECTRICAL		2.5 mils 5 mils	2.5 to 7.8 cm / 0.9 to 3.0 in 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 Continuous Reading: 30,000 + Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)	4 mils Data Matrix 5 mils Data Matrix 10 mils Data Matrix 5 mils PDF 10 mils PDF 13 mils EAN-13	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 2.5 to 16.0 cm / 0.9 to 6.3 in		
	READS PER CHARGE CRADLE INDICATOR LEDS					
	CURRENT	Charging (Typical): External Power: 800 mA @ 10 VDC; POT: 500 mA @ 5 VDC	SAFETY & REGULATORY			
	OPERATING (TYPICAL) INPUT VOLTAGE	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			Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.		
		a concrete surface PM9500-DPM: Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface	LASER CLASSIFICATION	Caution Laser Radiation - Do not stare into beam CDRH Class II: IEC 60825 Class 2 IEC 62471 Class 1 LED		
	ESD PROTECTION (AIR DISCHARGE) HUMIDITY (NON-CONDENSING)	20 kV 95%	UTILITIES			
	PARTICULATE AND WATER SEALING TEMPERATURE	IP65 Operating: -20 to 50 °C / -4 to 122 °F	DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is available		
	INTERFACES	Battery Charging: 0 to 45 °C / -32 to 113 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F		for download at no charge JavaPOS Utilities are available for download at no charge; OPOS Utilities are available for download at		
	INTERFACES	RS-232 / USB / Keyboard Wedge Multi-Interface; Optional Ethernet (Standard, Industrial)	REMOTE HOST DOWNLOAD	no charge Available on request		
	PHYSICAL CHARACTERISTICS		WARRANTY			
	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 / 8.3 x 4.3 x 2.9 in	WARRANTY	3-Year Factory Warranty		
	WEIGHT	PM9500-DPM: 380.0 g/13.4 oz				
CCESSORIES	Base Stations/Chargers	 BC9130-433 / BC9130-910 Base/Dual Charger, Multi-Interface BC9160-433 / BC9160-910 Base/Dual Charger, Multi-Interface/RS-485 	s/Holsters Mounts/ Mounts/ -P080 Universal Holster • HLD-P08	Stands		
A			5-8000) (HLD-800			

© 2013-2015 Datalogic ADC, Inc. • All rights reserved. • Protected to the fullest extent under U.S. and international laws. • Copying, or altering of this document is prohibited without express written consent from Datalogic ADC, Inc. • Datalogic and the Datalogic ADG go are registered trademarks of Datalogic S.p.A. in many countries, including the U.S.A. and the E.U. • 3GL is a registered trademark of Datalogic ADC Srl. • Motionix is a trademark of Datalogic ADC Srl. • Motionix is a trademark of Datalogic ADC Srl. • Notionix is a trademark of Datalogic ADC Srl. • Notionix is a trademark of Datalogic ADC Srl. • Inc. • Datalogic ADC, Inc. • Datalogic ADC, Inc. • Datalogic ADC Srl. • Notionix is a trademark of Datalogic ADC Srl. • The Bluetooth word mark and logos are owned by Bluetooth SIG. Inc. and any use of such marks by Datalogic ADC, Inc. is under license. • All other brand and product names are trademarks of their respective owners. • Product specifications are subject to change without notice. • DS-POWERSCAN9500-DPM-EVO-EN_REVF_20150716