POWERSCAN™ 9500-DPM EVO ◆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 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 ◆DATALOGIC

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

ELECTRICAL

CURRENT

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

ENVIRONMENTAL

AMBIENT LIGHT **DROP RESISTANCE**

ESD PROTECTION (AIR DISCHARGE)

TEMPERATURE

HUMIDITY (NON-CONDENSING) PARTICULATE AND WATER SEALING 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

Yellow/Black; Other colors and custom logo options are available for minimum quantity

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 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)

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

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

ENVIRONMENTAL COMPLIANCE

LASER CLASSIFICATION

LED CLASSIFICATION

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

UTILITIES

DATALOGIC ALADDIN^{TO}

OPOS / IAVAPOS

REMOTE HOST DOWNLOAD

Datalogic Aladdin configuration program is 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

WARRANTY

WARRANTY

3-Year Factory Warranty

Cases/Holsters



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 ◆DATALOGIC

Piconet: Max. Readers per Radio Receiver Using

Commercial Dongle: 7; Using Cradle: 4

Bluetooth® 3.0 Compliant, Class 1

Range distances are measured using the base station. Range with connection to other

Bluetooth peripherals may show different

Data Encryption: Scanner Authentication

Autodiscriminates all standard 1D codes

Royal Mail Code (RM4SCC); Swedish Post;

Aztec Code; China Han Xin Code; Data Matrix;

Australian Post; China Post; IMB; Japanese Post;

KIX Post; Planet Code; Portuguese Post; Postnet;

EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar

Stacked; GS1 DataBar Stacked Omnidirectional;

MacroPDF; MicroPDF417; PDF417; UPC A/E

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%

Battery Type: Lithium-Ion 2150 mAh

Continuous Reading: 30,000+

(Green); Power/Data (Yellow)

VDC; POT: 500 mA @ 5 VDC

including GS1 DataBar™ linear codes

MaxiCode; Micro QR Code; QR Code;

HID (Human Interface Device)

Class 1: Exceeds 90 m/295 ft

SPP (Serial Port Profile)

2.40 to 2.48 GHz

CORDLESS COMMUNICATIONS

BLUETOOTH WIRELESS TECHNOLOGY

PROFILES

PROTOCOL RADIO FREQUENCY RADIO RANGE (OPEN AIR)

SECURITY

DECODING CAPABILITY

1D / LINEAR CODES

2D CODES

POSTAL CODES

STACKED CODES

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

Composites

Power: 10 Hours

150 mA @ 10 VDC

Cradle: Withstands 50 drops from 1.2 m / 3.9 ft

onto a concrete surface

PBT9500: Withstands 50 drops from 2.0 m $^{\prime}$ 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)

PHYSICAL CHARACTERISTICS

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 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

IMAGE CAPTURE

IMAGER SENSOR LIGHT SOURCE

PRINT CONTRAST RATIO (MINIMUM)

READING ANGLE READING INDICATORS

RESOLUTION (MAXIMUM)

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, 2 864 x 544

Aiming: 630 - 680 nm VLD

Illumination: White LEDs

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

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

READING RANGES

TYPICAL DEPTH OF FIFLD

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.

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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

ENVIRONMENTAL COMPLIANCE

LASER CLASSIFICATION

LED CLASSIFICATION

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

UTILITIES

DATALOGIC ALADDIN™

OPOS / JAVAPOS

REMOTE HOST DOWNLOAD

Datalogic Aladdin configuration program is 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

WARRANTY

WARRANTY

3-Year Factory Warranty

Base Stations/Chargers







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)

Mounts/Stands



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



7-0404 Industrial Take-Up Reel

CORDLESS COMMUNICATIONS

DATALOGIC STAR CORDLESS SYSTEM™

Effective Radiated Power: 433 MHz: <10 mW; 910 MHz: <50 mW Point-to-Point Configuration Multi-Point Configuration: Max. Readers per Radio Receiver: 16

RADIO FREQUENCY 433 MHz; 910 MHz RADIO RANGE (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

DECODING CAPABILITY

TECHNICAL SPECIFICATIONS

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 Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post; 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

Battery Charging (Red); Charge Completed

ELECTRICAL

BATTERY

Battery Type: Lithium-Ion 2150 mAh Charge Time: External Power: 4 Hours; Host Power: 10 Hours Continuous Reading: 30,000+

READS PER CHARGE CRADLE INDICATOR LEDS

(Green); Power/Data (Yellow) Charging (Typical): External Power: CURRENT 800 mA @ 10 VDC; POT: 500 mA @ 5 VDC

OPERATING (TYPICAL)

150 mA @ 10 VDC INPUT VOLTAGE External Power: 10-30 VDC; POT: 5 VDC +/- 10%

0 - 100,000 lux

ENVIRONMENTAL

AMBIENT LIGHT

DROP RESISTANCE Cradle: Withstands 50 drops from 1.2 m / 3.9 ft

onto a concrete surface

PM9500-DPM: Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface

20 kV

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

95% 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

INTERFACES

INTERFACES

WEIGHT

RS-232 / USB / Keyboard Wedge Multi-Interface; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE PM9500-DPM EVO

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 /

Yellow/Black

8.3 x 4.3 x 2.9 in

PM9500-DPM: 380.0 g/13.4 oz

READING PERFORMANCE

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

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

1D Codes: 4 mil: 2D Codes: 7.5 mil

READING RANGES

TYPICAL DEPTH OF FIELD

RESOLUTION (MAXIMUM)

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.

2.8 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 2.2 to 7.2 cm / 0.8 to 2.8 in 5 mils Data Matrix 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

ENVIRONMENTAL COMPLIANCE

LASER CLASSIFICATION

LED CLASSIFICATION

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IEC 62471 Class 1 LED

UTILITIES

DATALOGIC ALADDIN™

OPOS / IAVAPOS

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REMOTE HOST DOWNLOAD

WARRANTY

WARRANTY

3-Year Factory Warranty

Base Stations/Chargers

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
- BC9180-433 / BC9180-910 Base/Dual Charger/Ethernet (Standard, Industrial)



Cases/Holsters

■ HLS-P080 Universal Holster (HLS-8000)



Mounts/Stands

HLD-P080 Desk/Wall Holder (HLD-8000) ■ 7-0404 Industrial Take-Up Reel



Miscellaneous

SD9030 STAR System USB Industrial Dongle (433 or 910 MHz available)



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