# POWERSCAN™ 9500-DPM EVO **ODATALOGIC**





#### **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<sup>™</sup> 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

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

Autodiscriminates all standard 1D codes
including GS1 DataBar™ linear codes
Aztec Code; China Han Xin Code; QR Code
PostAL CODES

Postnet; Royal Mail Code (RM4SCC)

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

Composites

#### **ELECTRICAL**

STACKED CODES

 CURRENT
 Operating (Typical): 350 mA

 Standby/Idle (Typical): 120 mA

 INPUT VOLTAGE
 5 VDC+/- 10%

#### **ENVIRONMENTAL**

AMBIENT LIGHT 0 - 100,000 lux
DROP RESISTANCE Withstands 50 drops from 2.0 m / 6.6 ft onto a

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

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

concrete surface

#### PHYSICAL CHARACTERISTICS

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

purchase.

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

RESOLUTION (MAXIMUM) 1D Codes: 2.5 mil; 2D Co

#### **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.

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

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 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 Available on request

#### WARRANTY

WARRANTY 3-Year Factory Warranty

# Cases/H

# 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

#### CORDLESS COMMUNICATIONS

BLUETOOTH WIRELESS TECHNOLOGY

**PROFILES** 

PROTOCOL RADIO FREQUENCY RADIO RANGE (OPEN AIR)

**SECURITY** 

Piconet: Max. Readers per Radio Receiver Using Commercial Dongle: 7; Using Cradle: 4 HID (Human Interface Device) SPP (Serial Port Profile) 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. Data Encryption; Scanner Authentication

#### **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; 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; MacroPDF; MicroPDF417; PDF417; UPC A/E

#### **ELECTRICAL**

**BATTERY** 

READS PER CHARGE

CRADLE INDICATOR LEDS

CURRENT

OPERATING (TYPICAL) INPUT VOLTAGE

Battery Type: Lithium-Ion 2150 mAh

Charge Time: External Power: 4 Hours; Host Power: 10 Hours

Composites

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

150 mA @ 10 VDC

External Power: 10-30 VDC; POT: 5 VDC +/- 10%

#### **ENVIRONMENTAL**

AMBIENT LIGHT DROP RESISTANCE

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

0 - 100,000 lux

Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto a concrete surface

PBT9500-DPM: Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface

20 kV 95%

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

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

#### PHYSICAL CHARACTERISTICS

COLORS AVAILABLE

DIMENSIONS

WFIGHT

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 INDICATORS

READING ANGLE

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 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 to 7.8 cm / 0.9 to 3.0 in 2.5 mils 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 1.2 to 9.0 cm / 0.4 to 3.5 in 5 mils PDF 10 mils PDF 10 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

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

The product meets necessary safety and regulatory

approvals for its intended use. The Quick Reference

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**



BC9030-BT Base/ Charger, Multi-Interface



BC9130-BT Base/Dual Charger, Multi-Interface

BC9180-BT Base/Dual Charger, Multi-Interface/Ethernet (Standard, Industrial)

#### Cases/Holsters



HI S-P080 Universal Holster (HLS-8000)

# Mounts/Stands



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



7-0404 Industrial Take-Up Reel

# POWERSCAN™ PM9500-DPM EVO �DATALOGIC

#### **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: 16 433 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

Autodiscriminates all standard 1D codes including

Australian Post; China Post; IMB; Japanese Post; KIX

Post; Planet Code; Portuguese Post; Postnet; Royal

EAN/JAN Composites; GS1 DataBar Composites; GS1

DataBar Expanded Stacked; GS1 DataBar Stacked;

GS1 DataBar Stacked Omnidirectional; MacroPDF;

Battery Charging (Red); Charge Completed (Green);

MicroPDF417; PDF417; UPC A/E Composites

Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code;

Mail Code (RM4SCC); Swedish Post;

Battery Type: Lithium-Ion 2150 mAh

Charging (Typical): External Power:

800 mA @ 10 VDC; POT: 500 mA @ 5 VDC

External Power: 10-30 VDC; POT: 5 VDC +/- 10%

Cradle: Withstands 50 drops from 1.2 m / 3.9 ft onto

Host Power: 10 Hours Continuous Reading: 30,000+

Power/Data (Yellow)

150 mA @ 10 VDC

0 - 100,000 lux

a concrete surface

Charge Time: External Power: 4 Hours;

GS1 DataBar™ linear codes

**DECODING CAPABILITY** 

RADIO RANGE (OPEN AIR)

RADIO FREQUENCY

1D / LINEAR CODES

2D CODES

POSTAL CODES

STACKED CODES

**ELECTRICAL** 

BATTERY

CURRENT

READS PER CHARGE

CRADLE INDICATOR LEDS

OPERATING (TYPICAL) INPUT VOLTAGE

**ENVIRONMENTAL** 

AMBIENT LIGHT DROP RESISTANCE

ESD PROTECTION (AIR DISCHARGE)

**HUMIDITY (NON-CONDENSING)** PARTICULATE AND WATER SEALING **TEMPERATURE** 

**INTERFACES** 

INTERFACES

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE PM9500-DPM EVO **DIMENSIONS** 

WEIGHT

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

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** 

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

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**

2

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

PM9500-DPM: Withstands 50 drops from 2.0 m / LEDICI ASSIFICATION

6.6 ft onto a concrete surface

20 kV 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

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

DATALOGIC ALADDIN™

OPOS / JAVAPOS

REMOTE HOST DOWNLOAD

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 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



■ 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, Multi-Interface/Ethernet (Standard, Industrial)

#### Cases/Holsters



HLS-P080 Universal Holster

# Mounts/Stands



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



7-0404 Industrial Take-Up Reel