POWERSCAN™ PD9531-DPM

DATALOGIC
EMPOWER YOUR VISION



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™ PD9531-DPM reader is a rugged handheld area imager specifically addressed and capable of reading codes marked with DPM.

READING CAPABILITIES

The PowerScan PD9531-DPM imager includes 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 printed on labels. It is based on a high density optic which allows the capture of very small, high-resolution codes in a range from near contact up to 15.0 cm / 5.9 in.

ILLUMINATION

The intuitive aiming system allows the highest first-pass reading rate. Additionally, the PowerScan 9531-DPM area imager uses a soft-pulsed white illumination light resulting in reduced flashes, which is very gentle on users' 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 DPM
- Highly visible 4-dot aimer with center cross for targeted scanning
- New 'soft-pulsed white' illumination light
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good read feedback
- Datalogic's Motionix™ motion-sensing technology
- Ergonomic shape provides hours of tireless data collection for the user
- Supports 1D, stacked and 2D codes, postal codes and image capture
- 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

INDUSTRY - APPLICATION

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

POWERSCAN™ RETAIL PD9531-DPM

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

1D / Linear codes	Auto discriminates 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	Postnet; Royal Mail Code (RM4SCC)
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

ELECTRICAL

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 concrete surface
ESD Protection (Air Discharge)	20 kV
Humidity (Non-Condensing)	0 - 95%
Particulate and Water Sealing	IP65
Temperature	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 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)	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
Resolution (Maximum)	1D Codes: 2.5 mil; 2D Codes: 4 mil

READING RANGES

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. The 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: **PD9531-DPM** 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 13 mils EAN13: 2.5 to 16.0 / 0.9 to 6.3 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

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	OPOS and Java/POS utilities are available for download at no charge.
Remote Host Download	Available on request

WARRANTY

Warranty	3-Year Factory Warranty

ACCESSORIES

Cases/Holsters



HLS-P080 Universal Holster (HLS-8000)

Mounts/Stands





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

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