



DPM TECHNOLOGY

Direct Part Marking (DPM) is a process for imprinting a bar code directly on an item or surface 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.

Datalogic's PowerScan™ PD8590-DPM imager is an ultra-high performance rugged handheld reader specifically designed for and capable of reading codes marked with DPM.

With a perfect combination of embedded multiple lighting systems and aggressive decoding algorithms, the PD8590-DPM imager is able to read any challenging code marked with DPM.

ILLUMINATION

The embedded Multi-Axis Lighting technology creates an even illumination on all surfaces (flat, shiny, curved or codes marked with dot peening) and ensures reliable reading.

READING CAPABILITIES

The PowerScan PD8590-DPM imager is equipped with a processor capable of decoding multiple symbologies quickly, allowing the operator to function at maximum productivity. The PD8590-DPM imager is also very easy to use. The imager integrates an aiming system for simple point-and-click targeting with multiple systems (audible, visual and vibration) to provide real-time feedback indicating that a good read has occurred.

USB POWER CONNECTION

Easy connectivity and portability are ensured with a direct, single USB power connection. No additional power connection is required.



FEATURES

- Multi-Axis Illumination Technology
- Aggressive decoding of codes marked with DPM
- Industrial and rugged design
- Vibrating motor for noisy industrial environments
- USB and RS-232 interface options

INDUSTRY-APPLICATIONS

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

DECODING CAPABILITY

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|---------------------------|--|
| 1D / LINEAR CODES | Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes |
| 2D CODES STACKED CODES | Data Matrix; Micro QR Code; QR Code GS1 DataBar Composites; GS1 DataBar Stacked; PDF417 |

ELECTRICAL

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| CURRENT | Operating (Typical): 408 mA Standby/Idle (Typical): 285 mA |
| INPUT VOLTAGE | 5 VDC +/- 10% |

ENVIRONMENTAL

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| AMBIENT LIGHT DROP RESISTANCE | 0 - 96,890 lux Withstands 50 drops from 1.8 m / 6.0 ft onto a concrete surface |
| HUMIDITY (NON-CONDENSING) TEMPERATURE | 5 - 95% Operating: 0 to 50 °C / 32 to 122 °F Storage/Transport: -20 to 65 °C / -4 to 150 °F |

INTERFACES

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| INTERFACES | RS-232; USB |
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PHYSICAL CHARACTERISTICS

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| COLORS AVAILABLE | Grey/Black |
| DIMENSIONS | 18.0 x 11.4 x 6.3 cm / 7.0 x 4.3 x 2.5 in |
| WEIGHT | 204.0 g / 7.2 oz |

READING PERFORMANCE

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| 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 IMAGER SENSOR LIGHT SOURCE | Graphic Formats: JPEG, TIFF 1280 x 1027 high resolution CMOS Dome: 630 nm (Red) and 470 nm (Blue) VLD Dark Field: Quadrant 30°, 630 nm (Red) VLD |
| READING ANGLE READING INDICATORS | Pitch: +/- 30°; Roll (Tilt): 180°; Skew (Yaw): +/- 30° Vibration mode, audible tones and visual feedback with multi-color LED and blue line targeting pattern |
| RESOLUTION (MAXIMUM) | 1D Codes: 2.5 mil; 2D Codes: 4 mil |

READING RANGES

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|------------------------|---------------------------|
| TYPICAL DEPTH OF FIELD | 0 to 5.1 cm / 0 to 2.0 in |
|------------------------|---------------------------|

SAFETY & REGULATORY

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|--------------------------|---|
| AGENCY APPROVALS | The product meets necessary safety and regulatory approvals for its intended use. The Product Reference Manual 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. |
| LED CLASSIFICATION | IEC 62471 Class 1 LED |

UTILITIES

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| DATALOGIC ESP | Datalogic ESP configuration program is available for download at no charge. |
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WARRANTY

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| WARRANTY | 2-Year Factory Warranty |
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Cases/Holsters

- HLS-P080 Universal Holster (HLS-8000)



Mounts/Stand

- 7-0404 Industrial Take-Up Reel

