POWERSCAN™ PD8590-DPM

◆DATALOGIC

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

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

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

ELECTRICAL

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

ENVIRONMENTAL

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

INTERFACES

INTERFACES	RS-232; USB

PHYSICAL CHARACTERISTICS

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

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: JPEG, TIFF
IMAGER SENSOR	1280 x 1027 high resolution CMOS
LIGHT SOURCE	Dome: 630 nm (Red) and 470 nm (Blue) VLD Dark Field: Quadrant 30°, 630 nm (Red) VLD
READING ANGLE	Pitch: +/- 30°; Roll (Tilt): 180°; Skew (Yaw): +/- 30°
READING INDICATORS	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

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

SAFETY & REGULATORY

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

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

WARRANTY

WARRANTY	2-Year Factory Warranty

ACCESSORIES

Cases/Holsters
- HLS-P080 Universal Holster (HLS-8000)

Mounts/Stands
- 7-0404 Industrial Take-Up Reel

www.datalogic.com