Industrial Corded Handheld Area Imager Bar Code Reader

The PowerScan 8000 product series is Datalogic Scanning's premium line of rugged industrial handheld data collection products. The PowerScan PD8500 corded reader offers omnidirectional reading of 1D and 2D codes as well as the capability of multiple code reading in a single read. Its high resolution Mega-Pixel imaging sensor is capable of outstanding performance in industrial applications. It is offered with three optic models: Standard Range and High Density models are for typical bar code reading conditions (for medium and high resolution code respectively) and the Wide Angle model offers a wider field of view allowing the capture of larger and longer codes as well as a full A4 image capture (29.0 x 21.0 cm / 11.42 x 8.27 in).

The PD8500 reader features Datalogic's exclusive 3 Green Lights (3GL™) for superior good read feedback. The patented 'Green Spot' directly on the code, and dual Good Read LEDs on the top and back of the cap add increased visibility at any angle. Aiming at the image to be captured is easy and intuitive, with the double-click trigger that enables the Datalogic 5-dot aimer, marking the four corners and center of the reading area.

The PD8500 reader's mechanics have been developed and tested to withstand extreme environmental conditions maintaining consistent reading performance without degrading performance or reliability. Its ergonomic enclosure is lightweight and well-balanced to ensure optimal operator comfort during scan intensive operations.

All models have multi-interface capabilities built-in featuring the most popular interfaces; RS-232, Keyboard Wedge and USB. The Datalogic Aladdin™ configuration program provides user-friendly features that simplify the start-up procedure, even for inexperienced users.

Features
- Optics available in Standard Range, High Density and Wide Angle
- Datalogic 3GL™ and loud beeper for good read feedback
- Datalogic's instinctive 5-dot aimer
- Omnidirectional reading from contact to 30.0 cm /11.8 in reading range
- Supports 1D, stacked and 2D codes, postal codes and image captures
- Water and Particulate Sealing Rating: IP65
- Drop resistance to 2.0 m / 6.5 ft

Specifications

DECODING CAPABILITY

1D / LINEAR CODES	Autodiscriminates all standard 1D codes including GS1 Databar™ linear codes
2D CODES	Aztec Code; Data Matrix; MaxiCode; QR Code
POSTAL CODES	Australian Post; China Post; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
STACKED CODES	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

CURRENT	Operating (Typical): 550 mA @ 5 VDC, 95 mA @ 30 VDC
INPUT VOLTAGE	5 - 30 VDC

ENVIRONMENTAL

AMBIENT LIGHT	0 - 100,000 lux
DROP RESISTANCE	Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface
HUMIDITY (NON-CONDENSING)	0 - 95%
PARTICULATE AND WATER SEALING	IP65
TEMPERATURE	Operating: -10 to 55 °C / 14 to 131 °F Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES   Keyboard Wedge; RS-232; USB

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE	Yellow/Black
DIMENSIONS	20.7 x 11.4 x 6.9 cm / 8.1 x 4.5 x 2.7 in
WEIGHT	295.0 g / 10.4 oz

READING PERFORMANCE

IMAGE CAPTURE	Graphic Formats: JPEG, TIFF
IMAGER SENSOR	1280 x 1024
LIGHT SOURCE	Aiming: 630 - 680 nm VLD; Illumination: LED Array 630 - 670 nm
PRINT CONTRAST RATIO (MINIMUM)	15%
READING ANGLE	Pitch: +/- 35°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
READING INDICATORS	Beepers, Polyphonic; Datalogic Three Green Lights (3GL™) Good Read Feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs
RESOLUTION (MAXIMUM)	High Density Model 1D Codes: 2 mil, PDF417: 3 mil, 2D Codes: 4 mil Standard Model 1D Codes: 4 mil, PDF417: 4 mil, 2D Codes: 6.6 mil Wide Angle Model 1D Codes: 5 mil, PDF417: 5 mil, 2D Codes: 7.5 mil

READING RANGES

TYPICAL DEPTH OF FIELD   Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

PD8530	PD8530 WA	PD8530 HD
5 mils: 7.5 to 15.5 cm / 2.9 to 6.1 in	5 mils: 2.5 to 10.0 cm / 1.0 to 3.9 in	3 mils: 4.5 to 8.0 cm / 1.7 to 3.1 in
5 mils PDF: 8.0 to 18.5 cm / 3.1 to 7.3 in	5 mils PDF: 3.0 to 10.5 cm / 1.2 to 4.1 in	3 mils PDF: 5.0 to 8.5 cm / 1.9 to 3.4 in
7.5 mils Data Matrix/QR: 8.0 to 16.5 cm / 3.1 to 6.5 in	7.5 mils Data Matrix/QR: 5.5 to 8.5 cm / 2.1 to 3.4 in	4 mils Data Matrix/QR: 5.1 to 7.6 cm / 2.0 to 3.0 in
10 mils: 5.5 to 24.5 cm / 2.1 to 9.7 in	10 mils: 2.0 to 16.0 cm / 0.8 to 6.3 in	5 mils: 3.5 to 9.5 cm / 1.3 to 3.8 in
10 mils Data Matrix/QR: 7.0 to 19.5 cm / 2.7 to 7.7 in	10 mils Data Matrix/QR: 3.2 to 12.5 cm / 1.2 to 4.9 in	10 mils: 4.0 to 12.5 cm / 1.5 to 5.0 in
10 mils PDF: 4.0 to 25.5 cm / 1.5 to 10.0 in	10 mils PDF: 1.5 to 21.5 cm / 0.6 to 8.4 in	10 mils Data Matrix/QR: 4.0 to 10.5 cm / 1.5 to 4.1 in
13 mils: 5.0 to 27.0 cm / 1.9 to 10.6 in	13 mils: 1.5 to 26.0 cm / 0.6 to 10.2 in	10 mils PDF: 3.0 to 13.0 cm / 1.1 to 5.2 in
20 mils: 5.5 to 36.5 cm / 2.1 to 14.4 in	20 mils: 1.5 to 32.0 cm / 0.6 to 12.6 in	13 mils : 5.0 to 14.0 cm / 1.9 to 5.5 in
		20 mils: 6.0 to 18.5 cm / 2.3 to 7.3 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	Complies to China RoHS; Complies to EU RoHS
LASER CLASSIFICATION	Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825-1 Class 2

UTILITIES

DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is available for download at no charge

WARRANTY   3-Year Factory Warranty

Cases/Holsters
• 11-0138 Heated Holder, 36 V
• 11-0139 Heated Holder, 24 V
• 11-0140 Heated Holder, 48 V
• HLS-P080 Universal Holster (HLS-8000)
• PC-P080 Protective Case/Belt Holster (PC-8000)

Mounts/Stands
• 7-0404 Industrial Take Up Reel
• HLD-P080 Desk/Wall Holder (HLD-8000)
• STD-P080 Hands Free Stand (STD-8000)

www.scanning.datalogic.com