



## Industrial Corded Handheld Laser Bar Code Reader

The PowerScan 8000 product series is Datalogic Scanning's premium line of rugged industrial handheld data collection products. The PowerScan PD8300 laser scanner offers state-of-the-art performance in a corded industrial product.

The PD8300 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. Superior reading performance is enhanced by Datalogic's patented PuzzleSolver™ technology for fast and accurate reading of standard, poorly printed and damaged codes.

The PD8300 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. A built-in metal tether hook for

suspended applications ensures workplace productivity.

All models have multi-interface capabilities built-in featuring the most popular interfaces; RS-232, Keyboard Wedge, Wand Emulation 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 (contact up to over 1.0 m / 3.3 ft) and Auto Range (20 cm / 8.0 in up to 12.5 m / 41.0 ft)
- Datalogic 3GL™ and loud beeper for good read feedback
- Built-in multiple interface (RS-232, Keyboard Wedge, Wand and USB)
- Undecoded Laser Output Model
- Operates over a wide range of temperatures
- 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

STACKED CODES

Code 16K; Code 49; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional

## ELECTRICAL

CURRENT

Operating (Typical): D8330: 420 mA @ 4 V; 310 mA @ 5 V; 62 mA @ 30 V  
D8340: 500 mA @ 4 V; 370 mA @ 5V; 70 mA @ 30 V

INPUT VOLTAGE

Standby/Idle (Typical): 4 mA  
4 - 30 VDC

## ENVIRONMENTAL

AMBIENT LIGHT

Immune to light exposure in offices/facilities and direct exposure to sunlight

DROP RESISTANCE

Withstands 50 drops from 2 m / 6.6 ft to concrete

ESD PROTECTION (AIR DISCHARGE)

20 kV

HUMIDITY (NON-CONDENSING)

90%

PARTICULATE AND WATER SEALING

IP65

TEMPERATURE

Operating: -30 to 50 °C / -22 to 122 °F  
Storage/Transport: -30 to 50 °C / -22 to 122 °F

## INTERFACES

Keyboard Wedge; RS-232; Undecoded Laser Output-Model D8340 Only; USB; Wand

## 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

LIGHT SOURCE

630 - 680 nm VLD

Aiming: 630 - 680 nm VLD, Activated by 'Double-Click' Trigger  
15%

PRINT CONTRAST RATIO (MINIMUM)

35 +/- 5 scans/sec.

READ RATE (MAXIMUM)

Pitch: 5 to 55° / -5 to -55°; Roll (Tilt): +/- 20°; Skew (Yaw): +/- 60°

READING ANGLE

Beeper; Datalogic Three Green Lights (3GL™) Good Read Feedback; Datalogic 'Green Spot' on the Code, Dual Good Read LEDs

READING INDICATORS

D83X0: 0.076 mm / 3 mils; D83X0 Auto Range: 0.190 mm / 7.5 mils

RESOLUTION (MAXIMUM)

## READING RANGES

TYPICAL DEPTH OF FIELD

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

PD8300

5 mils: 2.1 to 13.3 cm / 0.8 to 5.2 in

7.5 mils: 3.5 to 24.2 cm / 1.4 to 9.5 in

10 mils: 2.9 to 42.8 cm / 1.1 to 16.8 in

13 mils: 2.3 to 55.1 cm / 0.9 to 21.7 in

20 mils: 6.3 to 78.5 cm / 2.5 to 30.9 in

40 mils: 2.5 to 97.8 cm / 1.0 to 38.5 in

PD8300 AR

7.5 mils: 7.0 to 46.5 cm / 2.7 to 18.3 in

10 mils: 10.8 to 99.9 cm / 4.2 to 39.3 in

13 mils: 12.7 to 147.3 cm / 5.0 to 58.0 in

20 mils: 7.0 to 215.9 cm / 2.7 to 85.0 in

40 mils: 16.0 to 340.0 cm / 6.3 to 133.8 in

55 mils: 0.2 to 4.1 m / 0.7 to 13.5 ft

Reflective -100 mils: 1.5 to 12.5 m / 4.9 to 41.0 ft

## 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 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 VDC
- 11-0139 Heated Holder, 24 VDC
- 11-0140 Heated Holder, 48 VDC
- 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)

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Product specifications are subject to change without notice.

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