The PowerScan 8000 product series is Datalogic ADC’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.

**SUPERIOR READING PERFORMANCE**

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.

**BUILT TO LAST**

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.

**DEVELOPED WITH THE USER IN MIND**

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

**INDUSTRY-APPLICATIONS**

- Manufacturing Shop Floor
- Work-in-Progress
- Sub-Assembly
- Component Tracking
- Quality Control
- Time and Cost Analysis
- Machine Replenishment / Configuration
- Line Inventory Control
- Warehouse and Logistic Centers
- Shipping / Receiving
- Parcel Preparation
- Picking / Put Away
- Automatic Sorting Back-Up
- End of Line Sorting
POWERSCAN™ PD8300

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

1D / LINEAR CODES
Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes. Code 16K, Code 49; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional

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 @ 5 V; 70 mA @ 30 V
Standby/Idle (Typical): 4 mA

INPUT VOLTAGE
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

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

PRINT CONTRAST RATIO (MINIMUM)
15%

READ RATE (MAXIMUM)
35 to 55 scans/sec.

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

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

RESOLUTION (MAXIMUM)
D83X0: 0.076 mm / 3 mils; D83X0 Auto Range: 0.190 mm / 7.5 mils

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: 3.5 to 55.1 cm / 0.9 to 21.7 in
20 mils: 3.5 to 78.5 cm / 2.5 to 30.9 in
40 mils: 2.5 to 197.8 cm / 1.0 to 38.5 in

PD8300 AR
7.5 mils: 7.0 to 66.5 cm / 2.7 to 18.3 in
10 mils: 10.8 to 85.0 cm / 4.2 to 33.5 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

WARRANTY
3-Year Factory Warranty

ACCESSORIES

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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