POWERSCAN™ PD7100

◆DATALOGIC

AIM, TRIGGER, DECODE: IT'S THAT SIMPLE!

Datalogic's innovative and unique optical design of the PowerScan 7100 series of readers combines scanner features that are normally available on different scanner models into a single device: up to 3 mils maximum code resolution; contact to about 3.0 m / 9.8 ft reading distance; and wide angle code reading. The result is a versatile, easy to use and intuitive scanner that simplifies any code reading activity.

DEVELOPED WITH THE USER IN MIND

Together, high-speed digital hardware and Datalogic's advanced decoding algorithms produce read rates up to 390 scans per second, making the PowerScan 7100 reader the fastest industrial scanners available. This is why the 7100's are especially suitable for 'high-speed' applications where thousands of codes have to be read in a very short period of time.

BUILT TO LAST

As with all PowerScan products, the PD7100 readers' mechanics have been developed and tested to withstand extreme environmental conditions while maintaining consistent reading performance. A loud beeper and Datalogic's patented 'Green Spot' technology provide intuitive good-read feedback in noisy environments.

FEATURES

- Fastest speed-to-read: 390 scans/second
- Datalogic 'Green Spot' technology and loud beeper for good-read feedback
- Water and particulate sealing rating: IP65
- Drop resistance to 2.0 m / 6.5 ft
- 25 kV Electrostatic protection (air discharge)
- Model option with aimer for optimal code pointing
- Two different multi-interface options
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

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

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

1D / LINEAR CODES	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
POSTAL CODES	China Post
STACKED CODES	GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional

ELECTRICAL

CURRENT	Operating (Typical): 285 mA @ 5 VDC Standby/Idle (Typical): 135 mA @ 5 VDC
INPUT VOLTAGE	4 - 14 VDC

ENVIRONMENTAL

AMBIENT LIGHT	0 - 100,000 lux
DROP RESISTANCE	Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface
ESD PROTECTION (AIR DISCHARGE)	25 kV
HUMIDITY (NON-CONDENSING)	5 - 95%
PARTICULATE AND WATER SEALING	IP65
TEMPERATURE	Operating: -30 to 50 °C / -22 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

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PHYSICAL CHARACTERISTICS

COLORS AVAILABLE	Black; Yellow/Black
DIMENSIONS	Reader: 20.3 x 7.6 x 11.4 cm / 8.0 x 3.0 x 4.5 in
WEIGHT	280.0 g / 9.9 oz

READING PERFORMANCE

LIGHT SOURCE	Aiming: 630 - 680 nm VLD
ILLUMINATION	LED Array 630 - 670 nm
PRINT CONTRAST RATIO (MINIMUM)	15%
READ RATE (MAXIMUM)	390 reads/sec.
READING ANGLE	Pitch: +/- 65°; Roll (Tilt): +/- 30°; Skew (Yaw): +/- 65°
READING INDICATORS	Beeper (Adjustable Tone); Datalogic 'Green Spot' technology for good-read feedback; Good Read LED
RESOLUTION (MAXIMUM)	0.076 mm / 3 mils

READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent. 5 mils: 1.5 to 14.0 cm / 0.6 to 5.5 in 7.5 mils: 0 to 44.0 cm / 0 to 17.3 in 10 mils: 0 to 60.0 cm / 0 to 23.6 in 13 mils: 0 to 80.0 cm / 0 to 31.5 in 20 mils: 0 to 119.0 cm / 0 to 46.9 in 40 mils: 2.0 to 240.0 cm / 0.8 to 94.5 in Reflective - 55 mils: 5.0 to 300.0 cm / 2.0 to 118.1 in Reflective - 100 mils: 13.0 to 530.0 cm / 5.1 to 208.7 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 EN 60825-1 Class 1

UTILITIES

DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is available for download at no charge.
REMOTE HOST DOWNLOAD	Lowers service costs and improves operations.

WARRANTY

WARRANTY	3-Year Factory Warranty

ACCESSORIES

Cases/Holsters

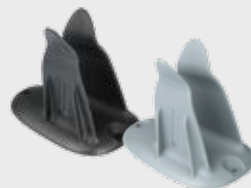- 11-0109 PowerHood Padded Cover

- 11-0138 Heated Holder, 36 V
- 11-0139 Heated Holder, 24 V
- 11-0140 Heated Holder, 48 V

Mounts/Stands

- 11-0110 Hands Free Stand

- 11-0360 Holder, Multi-Purpose, Black
- 11-0362 Holder, Multi-Purpose, Grey

- 11-0111 Universal Mounting Kit for PowerScan

- 7-0404 Industrial Take Up Reel