



### Industrial Coded Handheld Linear Imager Bar Code Reader

The PowerScan 7100/7000 product series are Datalogic Scanning's value line of rugged industrial handheld data collection products. The PowerScan D7100 linear imaging corded reader combines rugged durability and extremely snappy reading performance all at an affordable price.

Datalogic Scanning'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.

Together high-speed digital hardware and Datalogic Scanning's advanced decoding algorithms produce read rates up to 390 scans per second, making the PowerScan 7100 readers 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

As with all PowerScan products, the 7100 readers' mechanics have been developed and tested to withstand extreme environmental conditions while maintaining consistent reading performance. A loud beeper and Datalogic's exclusive patented 'Green Spot' directly on the code, provide intuitive good read feedback in noisy environments.

The PowerScan 7100 readers are offered with two different multi-interface combinations; the Standard multi-interface includes RS-232, Keyboard Wedge and USB; the second multi-interface set includes RS-232, IBM46xx and USB.

Light weight and instinctive usage combined with outstanding speed-to-read makes the 7100 product series the ideal solution for intensive code reading applications.



### Features

- Fastest speed-to-read - 390 scans/second
- Datalogic 'Green Spot' 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



# Specifications

## DECODING CAPABILITY

1D / LINEAR CODES

Autodiscriminates all standard 1D codes including GS1 Databar™ linear codes

POSTAL CODES  
STACKED CODES

China Post  
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  
DROP RESISTANCE  
ESD PROTECTION (AIR DISCHARGE)  
HUMIDITY (NON-CONDENSING)  
PARTICULATE AND WATER SEALING  
TEMPERATURE

0 - 100,000 lux  
Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface  
25 kV  
5 - 95%  
IP65  
Operating: -30 to 50 °C / -22 to 122 °F  
Storage/Transport: -40 to 70 °C / -40 to 158 °F

## INTERFACES

IBM 46xx; Keyboard Wedge; OEM (IBM) USB; RS-232; USB

## PHYSICAL CHARACTERISTICS

COLORS AVAILABLE  
DIMENSIONS  
WEIGHT

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

## READING PERFORMANCE

LIGHT SOURCE  
ILLUMINATION  
PRINT CONTRAST RATIO (MINIMUM)  
READ RATE (MAXIMUM)  
READING ANGLE  
READING INDICATORS  
RESOLUTION (MAXIMUM)

Aiming: 630 - 680 nm VLD  
LED Array 630 - 670 nm  
15%  
390 reads/sec.  
Pitch: +/- 65°; Roll (Tilt): +/- 30°; Skew (Yaw): +/- 65°  
Beeper (Adjustable Tone); Datalogic 'Green Spot' Good Read Feedback; Good Read LED  
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.

ENVIRONMENTAL COMPLIANCE

The Quick Reference Guide for this product can be referred to for a complete list of certifications.

LASER CLASSIFICATION

Complies to China RoHS  
Complies to EU RoHS  
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

3-Year Factory Warranty



### 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
- 11-0111 Universal Mounting Kit for PowerScan
- 7-0404 Industrial Take Up Reel

© 2008-2010 Datalogic Scanning Inc.  
All rights reserved. • Protected to the fullest extent under U.S. and international laws.  
• Copying, or altering of this document is prohibited without express written consent from Datalogic Scanning, Inc.

Datalogic is a registered trademark of Datalogic S.p.A. in many countries and the Datalogic logo is a trademark of Datalogic S.p.A. • PowerScan is a registered trademark of Datalogic Scanning Inc. Other brand and product names may be trademarks of their respective owners.

Product specifications are subject to change without notice.

DS-POWERSCANPD7100-ENA4 20100708

[www.scanning.datalogic.com](http://www.scanning.datalogic.com)