PowerScan® 8500

Industrial Handheld 2D Imaging Bar Code Reader

◇DATALOGIC™

THREE YEAR WARRANTY
3
· DATALOGIC ·

3 Green Lights (3GL™)

PowerScan®

General Description

Datalogic Scanning's PowerScan readers are the top rated industrial handheld data collection products on the market. Long known for outstanding durability and performance, the PowerScan brand of products continues to offer the ultimate solution for demanding industrial applications.

The PowerScan 8500 reader offers the richest feature set of Datalogic Scanning's industrial handheld products for the omni-directional reading of one-dimensional (1D) and reading of two-dimensional (2D) codes as well as the capability of multiple code reading in a single read.

The PowerScan 8500 readers' high resolution Mega-Pixel sensor (1280 x 1024 pixels) is capable of outstanding performance in all conditions. It is offered in 3 models: the Standard 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 bar codes as well as a full A4 (11.42 x 8.27 in / 29 x 21 cm) image capture.

Easy to use and install, the PowerScan 8500 readers are equipped with a built-in multi-interface including RS-232, Keyboard Wedge and USB. It has a stainless steel tether hook and a full set of accessories are available to organize the workplace for optimum efficiency. The Datalogic Aladdin™ software configuration program provides user-friendly features that simplify the start-up procedure, even for inexperienced users.

Operator comfort and productivity, essential for scan-intensive applications, is made simple by the PowerScan 8500 reader's ergonomic handle, well-balanced weight, and Datalogic's 3 Green Lights (3GL™) feature for superior 'good read' feedback including Datalogic's patented "green-spot" on the bar code.

The PowerScan 8500 reader's IP65 rating for dust and water sealing provide the complete protection needed in harsh environments. Offering maximum reading performance in temperatures that range from 14 to 122 °F / -10 to +55 °C, it is guaranteed to provide the highest productivity even in the most demanding conditions.

www.scanning.datalogic.com

Features

> Omni-directional reading
> Supports most popular 1D, 2D, Stacked and Postal codes
> Intuitive "5 dots" aiming
> Standard, High Density and Wide Angle optics
> From contact to 11.81 in / 30 cm reading range
> User interface: loud beeper and Datalogic's 3GL™ 'good read' feedback
> 6.6 ft / 2 m drop resistance, IP65 sealed

Applications

> Shop Floor:
  Work-in-progress
  Tracking
  Quality control
  Monitoring and reporting
  Line inventory
> Document Handling:
  Front-Desk/Postal
  Shipping/Receiving management
> Transportation & Logistics:
  Incoming/outgoing parcels
  Tracking
  Sorting
  Conveyor end of line

Specifications

OPTICAL CHARACTERISTICS
SENSOR	1280 x 1024 pixels
LIGHT SOURCE	LED array
WAVELENGHTH	630 - 670 nm
AIMING	Visible Laser Diode (VLD) @ 650 nm
CAPTURED AREA	HIGH DENSITY: 3.4 x 2.7 in / 87 x 69 mm
@150mm / 5.9 in	STANDARD: 3.7 x 3 in / 94 x 75 mm
	WIDE ANGLE: 7.7 x 6.3 in / 197 x 160 mm

ELECTRICAL CHARACTERISTICS
OPERATING VOLTAGE	5 - 30 VDC
POWER CONSUMPTION	2.9 W (max)
OPERATING CURRENT	550 mA @ 5 VDC (typical)
	95 mA @ 30 VDC (typical)

MECHANICAL CHARACTERISTICS
DIMENSIONS	8.1 x 2.6 x 4.3 in / 20.8 x 6.6 x 11 cm
WEIGHT	10.4 oz / 295 g (without cable)

ENVIRONMENTAL CHARACTERISTICS
AMBIENT LIGHT IMMUNITY	100,000 Lux
OPERATING TEMPERATURE	14 to 122 ºF / -10 to 55 ºC
STORAGE TEMPERATURE	-4 to 158 ºF / -20 to 70 ºC
HUMIDITY (non condensing)	0 to 95%
DROP RESISTANCE	6.6 ft / 2 m (over 50 drops to concrete)
ENVIRONMENTAL PROTECTION	IP65

PERFORMANCE
MAX RESOLUTION	1D: 2 mils; PDF417: 3 mil; 2D: 4 mils (High Density)
	1D: 4 mils; PDF417: 4 mil; 2D: 6.6 mils (Standard)
	1D: 5 mils; PDF417: 5 mil; 2D: 7.5 mils (Wide Angle)
PRINT CONTRAST RATIO (min)	15%
READING ANGLE	Skew: +/-40°, Pitch: +/-35°, Tilt: 360°
BAR CODES	**1D:** Interleaved 2/5, Code 39, Code 32, Code 128, EAN 128, Code 93, UPC/EAN/JAN, CODABAR, GS1 DataBar™ (formerly RSS)
	2D: PDF417, Data Matrix (ECC200), QR (Quick Response), Composite Code, MicroPDF, MacroPDF, MaxiCode, Aztec
	Postal Codes: POSTNET, PLANET, Japan Post, Australia Post, KIX Code, Royal Mail Code (RM4SCC)

IMAGE FORMAT	.jpg, .tif
INTERFACES	RS-232, Keyboard Wedge, USB (COM and Keyboard Wedge Emulation)
READING INDICATORS	'Good read' green spot on the code, 'Good read' LED's (3GL™ Feedback); Polyphonic Beepers
PROGRAMMING METHOD	*Manual:* Via bar code menu
	Automatic: Commands through RS-232/USB COM
	PC Tools: Datalogic Aladdin™

SAFETY & REGULATORY
ELECTRICAL	Complies to C-CSA-US (60950 to Canada and USA)
EMISSIONS	Complies to FCC-A, EN 55022-A, AS/NZS 3548
LASER CLASSIFICATION (AIMING SYSTEM)	Class 2 (IEC 825-1 and CDRH)
RESTRICTION OF HAZARDOUS SUBSTANCES (RoHS)	Complies with EU RoHS.

Reading Characteristics

LABEL DENSITY	STANDARD OPTIC	HIGH DENSITY OPTIC	WIDE ANGLE OPTIC
Code 39 - 3 mil		1.7 - 3.1 in / 4,5 - 8 cm	
Code 39 - 5 mil	2.9 - 6.1 in / 7,5 - 15,5 cm	1.3 -3.8 in / 3,5 - 9,5 cm	1 - 3.9 in / 2,5 - 10 cm
Code 39 - 10 mil	2.1 - 9.7 in / 5,5 - 24,5 cm	1.5 - 5 in / 4 - 12,5 cm	0.8 - 6.3 in / 2 - 16 cm
Code 39 - 20 mil	2.1 - 14.4 in / 5,5 - 36,5 cm	2.3 - 7.3 in / 6 - 18,5 cm	0.6 - 12.6 in / 1,5 - 32 cm
100% UPC - 13 mil	1.9 - 10.6 in / 5 - 27 cm	1.9 - 5.5 in / 5 - 14 cm	0.6 - 10.2 in / 1,5 - 26 cm
PDF417 - 3 mil		1.9 - 3.4 in / 5 - 8,5 cm	
PDF417 - 5 mil	3.1 - 7.3 in / 8 - 18,5 cm	1.7 - 3.4 in / 4,5 - 9,5 cm	1.2 - 4.1 in / 3 - 10,5 cm
PDF417 - 10 mil	1.5 - 10 in / 4 - 25,5 cm	1.1 - 5.2 in / 3 - 13 cm	0.6 - 8.4 in / 1,5 - 21,5 cm
Data Matrix - 4 mil		2 - 3 in / 5,1 - 7,6 cm	
Data Matrix - 5 mil		1.9 - 3.1 in / 5 - 8 cm	
Data Matrix - 7.5 mil	3.1 - 6.5 in / 8 - 16,5 cm	1.7 - 3.4 in / 4,5 - 9,5 cm	2.1 - 3.4 in / 5,5 - 8,5 cm
Data Matrix - 10 mil	2.7 - 7.7 in / 7 - 19,5 cm	1.5 - 4.1 in / 4 - 10,5 cm	1.2 - 4.9 in / 3,2 - 12,5 cm
QR - 7.5 mil	3.1 - 6.5 in / 8 - 16,5 cm	1.7 - 3.4 in / 4,5 - 9,5 cm	2.1 - 3.4 in / 5,5 - 8,5 cm
QR - 10 mil	2.7 - 7.7 in / 7 - 19,5 cm	1.5 - 4.1 in / 4 - 10,5 cm	1.2 - 4.9 in / 3 - 12,5 cm

STD-8000 Hands-free Stand
Allows use of the reader in hands-free mode.

HLD-8000 Desk/Wall Holder
Provides installation flexibility.

PC-8000 Protective Case/Belt Holster
Allows the reader to be worn on a belt.

HLS-8000 Universal Holster
Can be attached to desktops, work-tables, forklift trucks, etc.

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