

# POWERSCAN™ PD9531

**DATALOGIC**  
EMPOWER YOUR VISION



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

An intuitive and effortless scanning experience is the target of the PowerScan™ 9501 family. It combines omnidirectional reading capabilities, which is typical in all area imaging scanners, with outstanding optical characteristics. The result is a scanner that is able to read any kind of bar code, regardless of the orientation, from contact to over 1.0 m / 3.3 ft, depending on the bar code resolution. In addition, the PowerScan PD9531 area imager includes Datalogic's latest decoding software that guarantees snappy reading in any type of environment. Aim, trigger, decode: it is that simple!

## DEVELOPED WITH THE USER IN MIND

User comfort is guaranteed because of the scanner ergonomics, consisting of the handle shape, a well-balanced weight and an intuitive aiming system, allowing the highest first-pass reading rate while reducing unnatural wrist movement or rotation which can tire any user during long shifts. Additionally, the PowerScan 9501 family uses a soft-pulsed white illumination light resulting in reduced flashes, which is very gentle on the eyes and less troublesome to the operator during scan-intensive applications.

## BUILT TO LAST

The rugged mechanics of the PowerScan family guarantee reliable operation in the long term. Repeated shocks and indoor / outdoor usage in the toughest environmental conditions do not modify the scanners performance or reliability.

## FEATURES

- Snappy omnidirectional reading from contact to over 1.0 m / 3.3 ft
- Datalogic's new instinctive 'frame' aimer
- New 'soft white light' illumination
- Datalogic's 3GL™ (3 Green Lights) technology and loud beeper for good read feedback
- Datalogic's Motionix™ motion-sensing technology
- Ergonomic shape provides hours of tireless data collection for the user
- Supports 1D, stacked and 2D codes, postal codes and image capture
- Water and Particulate Sealing Rating: IP65
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRY - APPLICATION

- 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	
<b>1D / Linear Codes</b>	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
<b>2D Codes</b>	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
<b>Postal Codes</b>	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post
<b>Stacked Codes</b>	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL	
<b>Current</b>	Operating (Typical): PD9531/PD9531-HP: 335 mA PD9531-HPE: 220 mA @ 10 VDC Standby/Idle (Typical): PD95301/PD9531-HP: 120 mA PD9531-HPE: 60 mA @ 10 VDC
<b>Input Voltage</b>	PD9531/PD9531-HP: 5 VDC +/- 10% PD9531-HPE: 10-30 VDC

ENVIRONMENTAL	
<b>Ambient Light</b>	0 - 100,000 lux
<b>Drop Resistance</b>	Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface
<b>ESD Protection (Air Discharge)</b>	20 kV
<b>Humidity (Non-Condensing)</b>	0 - 95%
<b>Particulate and Water Sealing</b>	IP65
<b>Temperature</b>	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES	
<b>Interfaces</b>	RS-232 / USB / Keyboard Wedge Multi-Interface

PHYSICAL CHARACTERISTICS	
<b>Colors Available</b>	Yellow/Black; Other colors and custom logo options are available for minimum quantity purchase
<b>Dimensions</b>	21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in
<b>Weight</b>	330.0 g / 11.6 oz

READING PERFORMANCE	
<b>Image Capture</b>	Graphic Formats: BMP, JPEG, TIFF Greyscale: 256, 16, 2; JPEG, TIFF
<b>Imager Sensor</b>	PD9531: 864 x 544; PD9531-HP/PD9531-HPE: 1280 x 1024
<b>Light Source</b>	Aiming: 630 - 680 nm VLD Illumination: White LED reading light
<b>Print Contrast Ratio (Minimum)</b>	Pitch: +/- 40°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°
<b>Reading Angle</b>	15%
<b>Reading Indicators</b>	Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology and loud beeper for good-read feedback; Datalogic 'Green Spot' on the Code; Dual Good Read LEDs
<b>Resolution (Maximum)</b>	PD9531: 1D Codes: 4 mil; 2D Codes: 7.5 mil PD9531-HP/PD9531-HPE: 1D Codes: 2.5 mil; 2D Codes: 4 mil

READING RANGES	
<b>Typical Depth of Field</b>	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
<b>PD9531</b>	<b>PD9531-HP / PD9531-HPE</b>
4 mils: 6 to 17 cm / 2.3 to 6.7 in	2.5 mils: 2 to 6 cm / 0.8 to 2.3 in
13 mils: 4 to 48 cm / 1.5 to 18.9 in	13 mils: 3 to 60 cm / 1.1 to 23.6 in
20 mils: 4 to 55 cm / 1.5 to 21.6 in	20 mils: 3 to 70 cm / 1.1 to 27.5 in
40 mils: 4 to 85 cm / 1.5 to 33.4 in	40 mils: 3 to 110 cm / 1.1 to 43.3 in
10 mils PDF417: 2 to 25 cm / 0.8 to 9.8 in	10 mils PDF417: 2 to 30 cm / 0.8 to 11.8 in
7.5 mils Data Matrix: 7 to 14 cm / 2.8 to 5.5 in	4 mils Data Matrix: 2 to 6 cm / 0.8 to 2.3 in
10 mils Data Matrix: 4 to 18 cm / 1.5 to 7.0 in	10 mils Data Matrix: 2 to 20 cm / 0.8 to 7.8 in

SAFETY & REGULATORY	
<b>Agency Approvals</b>	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.
<b>Environmental Compliance</b>	Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.
<b>Laser Classification</b>	Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2
<b>LED Classification</b>	IEC 62471 Class 1 LED
UTILITIES	
<b>Datalogic Aladdin™</b>	Datalogic Aladdin configuration program is available for download at no charge.
<b>OPOS / JavaPOS</b>	OPOS and JavaPOS Utilities are available for download at no charge.
<b>Remote Host Download</b>	Available on request
WARRANTY	
<b>Warranty</b>	3-Year Factory Warranty

## ACCESSORIES

### Cases/Holsters



HLS-P080 Universal Holster (HLS-8000)

### Mounts/Stands



STD-P090 Stand, Hands-free (STD-9000)



HLD-P080 Desk/Wall Holder (HLD-8000)



7-0404 Industrial Take-Up Reel



**SCHWALENBERG**  
Betriebs- und Datentechnik GmbH

Ilse der Hütte 10, 31241 Ilse  
Tel.: 05172 1290-0, Fax: 05172 1290-12  
E-Mail: info@schwalenberg.com  
Internet: www.schwalenberg.com