



Datalogic PowerScan 9600 – Resilient flexibility

- ✓ Particularly robust for use in the toughest conditions
- ✓ Capture barcodes from up to 20 metres away
- ✓ Optimised for use in warehouses and production halls
- ✓ Connectivity via all common industry standards, wired and wireless
- ✓ Wireless charging for minimal maintenance

Features

Readable codes: 1D, 2D, Post, Stack, Digimarc

Reading distance: Contact - 20 m

Targeting: LED area marker

Feedback: LEDs, green spot, beeper and vibration

Connectivity: USB, USB-C, RS-232, Ethernet, Profi Net,
Keyboard Wedge, Datalogic STAR

Additional features: Photo function, OCR

Keyboard (Wireless models): 4 / 16 keys configurable

Battery (Wireless models): 80,000 scans, wireless charging

Protection: IP67 and IP65, 5000 drops from 1 meter, up to 2.5
drop resistant

Operating temperature: -20 - 50 °C

Dimensions: 190 x 79 x 140 mm

Weight: 318 – 480 g

Optional accessories

Dockingstation

2- / 4-fold battery charger

2-fold battery charger extension

Battery

Holster

Stand

Wall mount

Pulley

POWERSCAN PD9630

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

1D / Linear Codes	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D Codes	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; Dot code
Postal Codes	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post
Digital Watermarking	Digimarc Barcodes (PD9630-HP and PD9630-DC)

ELECTRICAL

Current	Operating (Typical): PD9630-SR: 200mA @ 5V; 120mA @ 12V PD9630-HP/ PD9630-DC: 280mA @ 5V / 140mA @ 12V Standby/Idle (Typical): 187mA @ 5V / 92mA @ 12V
Input Voltage	5 - 30 VDC ± 5%

ENVIRONMENTAL

Ambient Light	0 - 100,000 lux
Drop Resistance	Withstands 50 drops from 2.5 m / 8.2 ft @ 20 °C / 68 °F; Withstands 50 drops from 2.0 m / 6.6 ft @ -20 °C / -4 °F
Tumble	5,000 @ 1 m / 3.3 ft
Trigger Resistance	Withstands 10 million hits
ESD Protection (Air Discharge)	20 kV
Humidity (Non-Condensing)	0 - 95%
Particulate and Water Sealing	IP67 and IP65
Temperature	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

Interfaces	RS-232 / USB
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PHYSICAL CHARACTERISTICS

Colors Available	Yellow/Black
Dimensions H x L x W	19.0 x 14.0 x 7.9 cm / 7.5 x 5.5 x 3.1 in
Weight	318.0 g / 11.2 oz

READING PERFORMANCE

Imager Sensor	PD9630-SR/HP: 1280 x 800 PD9630-DC: 1280 x 800 color sensor
Light Source	Aiming: 630 - 680 nm VLD Illumination: White LED reading light
Print Contrast Ratio (Minimum)	15%
Reading Angle	Pitch: +/- 52°; Roll (Tilt): 360°; Skew (Yaw): +/- 52°
Field Of View	SR and HP: 38° H, 24° V DC: 50° H, 33° V
Reading Indicators	Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology for good-read feedback; Datalogic 'Green Spot' on the Code; Dual Good Read LEDs; Vibration.
Resolution (Maximum)	PD9630-SR/DC: 1D Codes: 3 mil; 2D Codes: 6 mil PD9630-HP: 1D Codes: 2.5 mil; 2D Codes: 4 mil

DECODING CAPABILITY

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
PD9630-SR Code 128 5 mils: 6.4 to 30.9 cm / 2.5 to 12.2 in 20 mils: 4 to 103.7 cm / 1.6 to 40.8 in 40 mils: 5.5 to 175 cm / 2.2 to 68.9 in EAN/UPC 13 mils: 4 to 67.5 cm / 1.5 to 26.5 in DataMatrix 10 mils: 6 to 30 cm / 2.5 to 11.8 in	PD9630-HP Code 128 2.5 mils: 6.3 to 11.5 cm / 2.5 to 4.5 in 5 mils: 3.8 to 41 cm / 1.5 to 16.1 in 20 mils: 4 to 157 cm / 1.6 to 61.8 in 40 mils: 5.5 to 242.9 cm / 2.1 to 95.6 in EAN/UPC 13 mils: 4 to 120 cm / 1.5 to 40.2 in PDF417 10 mils: 0.5 to 46.1 cm / 0.2 to 18.1 in DataMatrix 4 mils: 6.5 to 9.3 cm / 2.5 to 3.6 in DataMatrix 10 mils: 4.2 to 32 cm / 1.6 to 12.6 in
PD9630-DC 5 mils: 3.1 to 39.7 cm / 1.2 to 15.6 in 20 mils: 3.5 to 119.1 cm / 1.3 to 46.9 in DataMatrix 10 mils: 4.2 to 30.2 cm / 1.6 to 11.8 in	

SAFETY & REGULATORY

Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use. The Regulatory Addendum for this product can be referred to for a complete list of certifications.
Environmental Compliance	Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.
Laser Classification	Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2
LED Classification	IEC 62471 LED Class: Exempt

UTILITIES

Datalogic Aladdin™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS / JavaPOS	OPOS and JavaPOS Utilities are available for download at no charge.
Remote Host Download	Available on request

WARRANTY

Warranty	3-Year Factory Warranty
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POWERSCAN PM9600

TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS

Datalogic STAR Cordless System™	Radio Frequency: 433 MHz; 910 MHz; Effective Radiated Power: 433 MHz: < 10 mW; 910 MHz: < 50 mW; Point-to-Point/Multi-Point Configuration; Max. Readers per Radio Receiver: 16; Two Way Communications. Radio Range (Open Air): 433 MHz: 150 m / 492 ft low speed; 100 m / 328 ft high speed 910 MHz: 230 m / 754 ft low speed; Frequency hopping: 180 m / 590 ft high speed
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DECODING CAPABILITY

1D / Linear Codes	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D Codes	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; Dot code
Postal Codes	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post
Stacked Codes	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites
Digital Watermarking	Digimarc Barcodes (HP and DC models)

ELECTRICAL

Battery	Battery Type: Lithium-Ion: 3350 mAh Charge time @ 12 VDC: 2.5 hours to charge up to 95%, 3.2 hours to charge 100%, External Power. Reads per charge: 80,000
Current	Charging (Typical) < 15 W Scanner only: 480 mA @ 3.7 V (Operative) Cradle only: 150 mA @ 5 V (Operative)
Input Voltage	Host powered: 5V DC ± 5% or 10 - 30 VDC External power supply: 10 - 30 VDC ± 5%

ENVIRONMENTAL

Ambient Light	0 - 100,000 lux
Drop Resistance	Withstands 50 drops from 2.5 m / 8.2 ft @ 20 °C / 68 °F; Withstands 50 drops from 2.0 m / 6.6 ft @ -20 °C / -4 °F
Trigger Resistance	Withstands 10 million hits
ESD Protection (Air Discharge)	20 kV
Humidity (Non-Condensing)	0 - 95%
Particulate and Water Sealing	IP67 and IP65; Cradle IP65 (specific models)
Temperature	Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F Charging: 0 to 40 °C / 32 to 104 °F nominal; 0 to 35 °C / 32 to 95 °F ideal

INTERFACES

Interfaces	RS-232 / USB / Keyboard Wedge Multi-Interface / Ethernet and Industrial Protocols
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PHYSICAL CHARACTERISTICS

Colors Available	Yellow/Black
Dimensions H x L x W	19.8 x 14.0 x 7.9 cm / 7.8 x 5.5 x 3.1 in
Display	PM9600-D/DK: 1.8" OLED graphic display; Font Dimensions: User selectable.
Keypad	PM9600-D: 4 Keys, PM9600-DK: 16 Keys; Configurable
Weight	PM9600-XX: 425 g / 15.0 oz PM9600-DXX: 445 g / 15.7 oz PM9600-DKXX: 455 g / 16.0 oz

READING PERFORMANCE

Imager Sensor	1280 x 800 pixels
Light Source	Aiming: 630 - 680 nm VLD Illumination: White LED reading light
Print Contrast Ratio (Minimum)	15%
Reading Angle	Pitch: +/- 52°; Roll (Tilt): 360°; Skew (Yaw): +/- 52°
Field Of View	SR and HP: 38° H, 24° V
Reading Indicators	Beeper (Adjustable Tone and Volume); Datalogic's 3GL™ (Three Green Lights) technology for good-read feedback; Datalogic 'Green Spot' on the Code; Dual Good Read LEDs; Vibration.
Resolution (Maximum)	SR: 1D Codes: 3 mil; 2D Codes: 6 mil HP: 1D Codes: 2.5 mil; 2D Codes: 4 mil

READING RANGES

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
SR Models Code 128 5 mils: 6.4 to 30.9 cm / 2.5 to 12.2 in 20 mils: 4 to 103.7 cm / 1.6 to 40.8 in 40 mils: 5.5 to 175 cm / 2.2 to 68.9 in EAN/UPC 13 mils: 4 to 67.5 cm / 1.5 to 26.5 in DataMatrix 10 mils: 6 to 30 cm / 2.5 to 11.8 in	HP Models Code 128 2.5 mils: 6.3 to 11.5 cm / 2.5 to 4.5 in 5 mils: 3.8 to 4.1 cm / 1.5 to 16.1 in 40 mils: 5.5 to 242.9 cm / 2.1 to 95.6 in EAN/UPC 13 mils: 4 to 120 cm / 1.5 to 40.2 in PDF417 10 mils: 0.5 to 46.1 cm / 0.2 to 18.1 in DataMatrix 10 mils: 4.2 to 32 cm / 1.6 to 12.6 in

SAFETY & REGULATORY

Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use. The Regulatory Addendum for this product can be referred to for a complete list of certifications.
Environmental Compliance	Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H.
Laser Classification	Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2
LED Classification	IEC 62471 LED Class: Exempt

UTILITIES

Datalogic Aladdin™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS / JavaPOS	OPOS and JavaPOS Utilities are available for download at no charge.

WARRANTY

Warranty	3-Year Factory Warranty
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POWERSCAN 9600 AUTO RANGE

TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS

Datalogic STAR Cordless System™	Radio Frequency: 433 MHz; Effective Radiated Power: < 10 mW; Point-to-Point / Multi-Point Configuration; Max. Readers per Radio Receiver: 16; Two Way Communications. Radio Range (Open Air): 150 m / 492 ft low speed; 100 m / 328 ft high speed
Bluetooth Wireless Technology	Radio Frequency: 2.4 GHz. Profiles: SPP (Serial Port Profile) and HID (Human Interface Device); Protocol: Bluetooth 5.0 Certified, Class 1, Class 2 and Class 3; Radio Range from the base station (Open Air): 100.0 m / 328.0 ft Security: Data Encryption; Scanner Authentication

DECODING CAPABILITY

1D / Linear Codes	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes.
2D Codes	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; Dot Code
Postal Codes	Australian Post; China Post; IMB; Japanese Post; KIX Post; Planet Code; Portuguese Post; Postnet; Royal Mail Code (RM4SCC); Swedish Post
Stacked Codes	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

Current	PD9630-AR: Operating (max) 770 mA @ 5V (550 mA in compatibility mode); 310 mA @ 12V. Standby / idle (max): 140mA @ 5V; 80 mA @ 12V PM/PBT9600-AR: Operating 480 mA @ 3.7 V; Charging (Typical) < 15 W; Cradle only: 150 mA @ 5 V (Operative)
Battery	Lithium-Ion: 3350 mAh Charge Time @ 12 VDC: 2.5 hours to charge up to 95%, 3.2 hours to charge 100%, External Power. Reads per Charge: 80,000+
Input Voltage	Corded models: 5 - 30 VDC ± 5% Cordless models: Host powered: 5V DC ± 5% or 10 - 30 VDC External power supply: 10 - 30 VDC ± 5%

ENVIRONMENTAL

Ambient Light	0 - 100,000 lux
Drop Resistance	Withstands 50 drops from 2.5 m / 8.2 ft @ 20 °C / 68 °F; Withstands 50 drops from 2.0 m / 6.6 ft @ -20 °C / -4 °
Trigger Resistance	Withstands 10 million hits
ESD Protection (Air Discharge)	20 kV
Humidity (Non-Condensing)	0 - 95%
Particulate and Water Sealing	IP67 and IP65; Cradle IP65 (specific models)
Temperature	Operating: Corded: -30 to 50 °C / -22 to 122 °F; Cordless: -20 to 50 °C / -4 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F Charging: 0 to 40°C / 32 °F to 104 °F, ideal up to 35° C / 95°F

INTERFACES

Interfaces	RS-232 / USB / Ethernet and Industrial Protocols
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PHYSICAL CHARACTERISTICS

Colors Available	Yellow/Black
Dimensions H x L x W	19.8 x 14.0 x 7.9 cm / 7.8 x 5.5 x 3.1 in
Display	PM9600-DKAR: 1.8" OLED graphic display; Font Dimensions: User selectable
Keypad	PM9600-DK: 16 Keys. Configurable
Weight	PD9630-AR: 320g / 11.2 oz PBT9600-AR / PM9600-AR: 445 g / 15.7 oz PM9600-DKAR: 480 g / 16.9 oz

READING PERFORMANCE

Imager Sensor	1280 x 800 pixels
Light Source	Aiming: 650 nm VLD Illumination: Red LED reading light
Print Contrast Ratio (Minimum)	20%
Reading Angle	Pitch: +/- 60°; Roll (Tilt): 360°; Skew (Yaw): +/- 60°
Reading Indicators	Beeper (Adjustable Tone and Volume); Dual Good Read LEDs; Vibration.
Resolution (Maximum)	1D Codes: 2.5 mil; 2D Codes: 5 mil

READING RANGES

Typical Depth of Field	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
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Code 39 3 mils: up to 95 cm / 37 in
Code 39 20 mils: up to 600 cm / 236 in
EAN/UPC 13mils: up to 320 cm / 126 in
Code 128 40 mils: up to 1000 cm / 393 in
Code 128: 100 mils: up to 2000 cm / 787 in
Data Matrix 10 mils: up to 110 cm / 43 in
Data Matrix 55 mils: up to 650 cm / 256 in
Data Matrix 100 mils: up to 1000 cm / 393 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; Complies to R.E.A.C.H.
Laser Classification	Caution Laser Radiation - Do not stare into beam; CDRH Class II; IEC 60825 Class 2
LED Classification	IEC 62471 Class 1 LED

UTILITIES

Datalogic Aladdin™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS / JavaPOS	OPOS and JavaPOS Utilities are available for download at no charge.

WARRANTY

Warranty	3-Year Factory Warranty
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