POWERSCAN™ PM8500



INDUSTRIAL HANDHELD AREA IMAGER BAR CODE READER WITH DATALOGIC'S STAR CORDLESS SYSTEM

The PowerScan 8000 product series is Datalogic ADC's premium line of rugged industrial handheld data collection products. The PowerScan PM8500 cordless area imager offers omnidirectional reading of 1D and 2D codes combined with unlimited mobility guaranteed by the Datalogic STAR Cordless System™.

The PowerScan PM8500 reader's feature a high-resolution Mega-Pixel imaging sensor that is capable of outstanding performance in industrial applications. It is offered in three optic models: Standard Range and High Density models are for typical bar code reading conditions (for medium and high-resolution codes respectively); the Wide Angle model offers a wider field of view allowing the capture of larger and longer codes.

The Datalogic STAR Cordless System for narrow band radio communications provides the key to increased productivity and flexibility in the workplace. It offers scalable solutions from simple point-to-point applications to networking capabilities. An optional display with a 3-key keypad provides useful information to the operator like time and battery status and enables interaction with the host. The high capacity Lithiumlon battery can be replaced in few seconds and charged on the cradle as well on a separate multi-battery charger.

The PM8500 readers feature Datalogic's exclusive 3GL™ (3 Green Lights) for superior good read feedback. The patented 'Green Spot' directly on the code and dual Good Read LEDs on the top and back of the cap adds increased visibility at any angle.

The PM8500 reader's mechanics have been developed and tested to withstand extreme environmental conditions maintaining consistent reading capability without degrading performance or reliability. Its ergonomic enclosure is lightweight and well balanced to ensure optimal operator comfort during scan intensive operations. A built-in metal tether hook for suspended applications ensures workplace productivity.

FEATURES

- Optics available in Standard Range, High Density and Wide Angle
- Datalogic 3GL™ (3 Green Lights) and loud beeper for good read feedback
- · Datalogic's instinctive 5-dot aimer
- Omnidirectional reading from contact to 30.0 cm / 11.8 in
- Optional model available with display and 3-key keypad
- 100% Compatible with Datalogic's STAR Cordless System™
- Point-to-point and multi-point transmission
- · Seamless roaming
- · User replaceable Lithium-lon battery
- Operates over a wide range of temperatures
- Water and particulate sealing rating: IP65 (without display) / IP64 (with display)
- Drop resistance to 2.0 m / 6.5 ft















POWERSCAN™ PM8500

CORDLESS COMMUNICATIONS

DATALOGIC STAR CORDLESS SYSTEM™ Effective Radiated Power: 433.92 MHz: < 10 mW; 910 MHz:

 $< 1 \,\mathrm{mW}$

Multi-Point Configuration: Max. Readers in Same Area: 2000

Max. Readers per Radio Receiver: 32

Point-to-Point Configuration: Radio Frequency: 433.92 MHz;

910 MHz

Radio Range (Open Air): 433.92 MHz: Exceeds 50 m / 164 ft;

910 MHz: Exceeds 30 m / 98 ft

Seamless Roaming; Two Way Communications

DECODING CAPABILITY

1D / LINEAR CODES

Autodiscriminates all standard 1D codes including GS1

DataBar™ linear codes.

2D CODES Aztec Code; Aztec Mesas; Data Matrix; MaxiCode; Micro QR

Code: OR Code

POSTAL CODES

Australian Post; British Post; Canadian Post; China Post; IMB; Japanese Post; KIX Post; Korea Post; Planet Code; Postnet;

Royal Mail Code (RM4SCC)

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

BATTERY

CURRENT

Battery Type: Li-ION 2150 mAh; Charge Time: External Power: 4 Hours; Host Power: 10 hours; Reads per Charge: + 30,000 Battery Charging (Red); Charge Completed (Green); Power/

CRADLE INDICATOR LEDS

Data (Yellow) Operating (Typical): External: 1 A @ 10 VDC, 330 mA @ 30 VDC;

Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface

POT: 500 mA

0 - 100,000 lux

INPUT VOLTAGE

External: 10 - 30 VDC; POT: 5 VDC +/- 5%

ENVIRONMENTAL

AMBIENT LIGHT

DROP RESISTANCE

ESD PROTECTION (AIR DISCHARGE) **HUMIDITY (NON-CONDENSING)**

PARTICULATE AND WATER SEALING

TEMPERATURE

PM8500: IP65: PM8500-D: IP64 Operating: -10 to 50 °C / 14 to 122 °F; Storage/Transport: -40

to 70 °C / -40 to 158 °F

20 kV

0 - 95%

INTERFACES

INTERFACES

DISPLAY

KEYPAD

RS-232 / USB / Keyboard Wedge / Wand Multi-Interface; RS-

485: BC8060 Only

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE DIMENSIONS

Yellow/Black Cradle: 24.0 x 10.8 x 9.5 cm / 9.5 x 4.3 x 3.7 in;

PM8500: 20.7 x 11.4 x 6.9 cm / 8.1 x 4.5 x 2.7 in;

PM8500-D: 21.0 x 11.4 x 6.9 cm / 8.3 x 4.5 x 2.7 in PM8500-D: Display Type: Graphic with backlight; Font

Dimensions: User selectable (4 lines x 16 columns default); Screen Dimensions: 32 x 96 pixels

PM8500-D Only: 3-Key Keypad

WEIGHT Cradle: 380.0 g / 13.4 oz; PM8500: 360.0 g / 12.7 oz;

PM8500-D: 393.0 g / 13.8 oz

READING PERFORMANCE

IMAGER SENSOR

LIGHT SOURCE

1280 x 1024

Aiming: 630 - 680 nm VLD; Illumination: LED Array 630 - 670

15%

PRINT CONTRAST RATIO (MINIMUM)

READING ANGLE READING INDICATORS

RESOLUTION (MAXIMUM)

Pitch: +/- 35°; Roll (Tilt): 360°; Skew (Yaw): +/- 40° Beepers, Polyphonic; Datalogic Three Green Lights (3GL™) Good Read Feedback: Datalogic 'Green Spot' on the Code; Dual

Good Read LEDs; Good Transmission

High Density Model: 1D Codes: 2 mil, PDF417: 3 mil, 2D Codes:

4 mil

Standard Model: 1D Codes: 4 mil, PDF417: 4 mil,

2D Codes: 6.6 mil

Wide Angle Model: 1D Codes: 5 mil, PDF417: 5 mil,

2D Codes: 7.5 mil

READING RANGES

TYPICAL DEPTH OF FIELD

Minimum distance determined by symbol length and scan

angle.

Printing resolution, contrast, and ambient light dependent.

5 mils: 7.5 to 15.5 cm / 2.9 to 6.1 in 10 mils: 5.5 to 24.5 cm / 2.1 to 9.7 in 13 mils: 5 0 to 27 0 cm / 1 9 to 10 6 in 20 mils: 5.5 to 36.5 cm / 2.1 to 14.4 in 5 mils PDF: 8 0 to 18 5 cm / 3 1 to 7 3 in 10 mils PDF: 4.0 to 25.5 cm / 1.5 to 10.0 in 7.5 mils Data Matrix/QR:

8.0 to 16.5 cm / 3.1 to 6.5 in 10 mils Data Matrix/OR:

7.0 to 19.5 cm / 2.7 to 7.7 in

PM8500 WA 5 mils: 2.5 to 10.0 cm / 1.0 to 3.9 in 10 mils: 2.0 to 16.0 cm / 0.8 to 6.3 in 13 mils: 1 5 to 26 0 cm / 0 6 to 10 2 in 20 mils: 1.5 to 32.0 cm / 0.6 to 12.6 in 7.5 mils Data Matrix/QR:

5.5 to 8.5 cm / 2.1 to 3.4 in 10 mils Data Matrix/OR: 3.2 to 12.5 cm / 1.2 to 4.9 in

3 mils: 4.5 to 8.0 cm / 1.7 to 3.1 in 5 mils: 3.5 to 9.5 cm / 1.3 to 3.8 in 10 mils: 4 0 to 12 5 cm / 1 5 to 5 0 in 13 mils: 5.0 to 14.0 cm / 1.9 to 5.5 in 5 mils PDF 3 0 to 10 5 cm / 1 2 to 4 1 in 20 mils 6 0 to 18 5 cm / 2 3 to 7 3 in 10 mils PDF: 1.5 to 21.5 cm / 0.6 to 8.4 in 3 mils PDF: 5.0 to 8.5 cm / 1.9 to 3.4 in 10 mils PDF: 3.0 to 13.0 cm / 1.1 to 5.2 in 4 mils Data Matrix/OR

5.1 to 7.6 cm / 2.0 to 3.0 in 10 mils Data Matrix/OR: 4.0 to 10.5 cm / 1.5 to 4.1 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

LASER CLASSIFICATION

Complies to China RoHS; Complies to EU RoHS

Caution Laser Radiation - Do not stare into beam; CDRH Class II;

Datalogic Aladdin configuration program is available for

EN 60825-1 Class 1; IEC 60825-1 Class 2

UTILITIES

DATALOGIC ALADDIN™

REMOTE HOST DOWNLOAD

download at no charge. Available on request

WARRANTY

WARRANTY

3-Year Factory Warranty

ACCESSORIES



Base Stations/Chargers

- BC8030-433, BC8030-910: Base/Charger Multi-Interface
- BC8060-433, BC8060-910: Base/Charger Multi-Interface/RS-485
- CHR-PM80: Charger (C-8000)
- SBS-PM80: Spare Battery Slot compatible with the BC8060



Batteries/Battery Chargers

- FBP-PM80 Fixed Battery Pack (FBP-8000)
- MC-P080 Multiple Battery Charger, 4-Slots (MC-8000) • RBP-PM80 Removable Battery Pack (RBP-8000)



Cases/Holsters

PM8300-D models)



• 11-0138 Heated Holder, 36 VDC; 11-0139 Heated Holder, 24 VDC; 11-0140 Heated Holder, 48 VDC (not for use with

• PC-P080, PCD-P080 Protective Case/Belt Holster (PC-8000)

HLS-P080 Universal Holster (HLS-8000)









Mounts/Stands

- 7-0404 Industrial Take-Up Reel
- HLD-P080 Desk/Wall Holder (HLD-8000)
- STD-P080 Hands Free Stand (STD-8000) · VMK-PM80 Vehicle Mount Kit

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