

## Industrial Handheld Area Imager Bar Code Reader with Datalogic's STAR Cordless System

The PowerScan 8000 product series is Datalogic Scanning'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 ${ }^{\text {TM }}$.

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 Lithium-Ion 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 ${ }^{\text {TM }}$ (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 3GLT (3 Green Lights) and loud beeper for good read feedback
- Datalogic's instinctive 5-dot aimer
- Omnidirectional reading from contact to $30,0 \mathrm{~cm} / 11,8$ in
- Optional model available with display and 3-key keypad
- 100\% Compatible with Datalogic's STAR Cordless System ${ }^{\text {TM }}$
- Point-to-point and multi-point transmission
- Seamless roaming
- User replaceable Lithium-Ion battery
- Operates over a wide range of temperatures
- Water and particulate sealing rating: IP65 (without display) / IP64 (with display)
- Drop resistance to $2,0 \mathrm{~m} / 6,5 \mathrm{ft}$



## Specifications

CORDLESS COMMUNICATIONS
DATALOGIC STAR CORDLESS SYSTEM ${ }^{\text {M }}$

DECODING CAPABILITY
1D / LINEAR CODES
2D CODES
POSTAL CODES
STACKED CODES

## ELECTRICAL

BATTERY
CRADLE INDICATOR LEDS
CURRENT
input Voltage

## ENVIRONMENTAL

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

## INTERFACES

PHYSICAL CHARACTERISTICS
COLORS AVAILABLE
DIMENSIONS
DISPLAY

## KEYPAD

WEIGHT
READING PERFORMANCE
IMAGER SENSOR
LIGHT SOURCE
PRINT CONTRAST RATIO (MINIMUM)
READING ANGLE
READING INDICATORS

RESOLUTION (MAXIMUM)

## READING RANGES

TYPICAL DEPTH OF FIELD

## PM8500

5 mils: 7,5 to $15,5 \mathrm{~cm} / 2,9$ to 6,1 in 10 mils: 5,5 to $24,5 \mathrm{~cm} / 2,1$ to 9,7 in 13 mils: 5,0 to $27,0 \mathrm{~cm} / 1,9$ to 10, in 20 mils: 5,5 to $36,5 \mathrm{~cm} / 2,1$ to 14,4 in 5 mils PDF: 8,0 to $18,5 \mathrm{~cm} / 3,1$ to 7,3 in 10 mils PDF: 4,0 to $25,5 \mathrm{~cm} / 1,5$ to 10,0 in
7,5 mils Data Matrix/QR:
8,0 to $16,5 \mathrm{~cm} / 3,1$ to 6,5 in
10 mils Data Matrix/QR:
7,0 to $19,5 \mathrm{~cm} / 2,7$ to 7,7 in
SAFETY \& REGULATORY
AGENCY APPROVALS

ENVIRONMENTAL COMPLIANCE
LASER CLASSIFICATION

## UTILITIES

DATALOGIC ALADDIN ${ }^{\text {m }}$

Effective Radiated Power: $433,92 \mathrm{MHz}$ : < 10 mW ; 910 MHz : 1 mW Multi-Point Configuration: Max. Readers in Same Area: 2000 Max. Readers per Radio Receiver: 32
Point-to-Point Configuration: Radio Frequency: $433,92 \mathrm{MHz} ; 910 \mathrm{MHz}$ Radio Range (Open Air): 433,92 MHz: Up to $50 \mathrm{~m} / 164 \mathrm{ft}$
910 MHz : Up to $30 \mathrm{~m} / 98 \mathrm{ft}$
Seamless Roaming; Two Way Communications
Autodiscriminates all standard 1D codes including GS1 DataBarm linear codes
Aztec Code; Aztec Mesas; Data Matrix; MaxiCode; QR Code
Australian Post; British Post; Canadian Post; China Post; Japanese Post; KIX Post; Korea Post; Planet Code; Postnet; Royal Mail Code (RM4SCC) EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites

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/Data (Yellow) Operating (Typical): External: 1 A @ 10 VDC, $330 \mathrm{~mA} @ 30$ VDC; POT: 500 mA External: 10-30 VDC; POT: 5 VDC +/- $5 \%$

0-100,000 lux
Withstands 50 drops from 2,0 m / 6,6 ft onto a concrete surface
20 kV
0-95\%
PM8500: IP65; PM8500-D: IP64
Operating: -10 to $50^{\circ} \mathrm{C} / 14$ to $122^{\circ} \mathrm{F}$
Storage/Transport: - 40 to $70^{\circ} \mathrm{C} /-40$ to $158^{\circ} \mathrm{F}$
RS-232 / USB / Keyboard Wedge / Wand Multi-Interface; RS-485: BC8060 Only

Yellow/Black
Cradle: $24,0 \times 10,8 \times 9,5 \mathrm{~cm} / 9,5 \times 4,3 \times 3,7 \mathrm{in} ;$ PM8500: $20,7 \times 11,4 \times 6,9$ $\mathrm{cm} / 8,1 \times 4,5 \times 2,7 \mathrm{in}$; PM8500-D: $21,0 \times 11,4 \times 6,9 \mathrm{~cm} / 8,3 \times 4,5 \times 2,7 \mathrm{in}$ PM8500-D: Display Type: Graphic with backlight Font Dimensions: User selectable (4 lines x 16 columns default)
Screen Dimensions: $32 \times 96$ pixels
PM8500-D Only: 3-Key Keypad
Cradle: 380,0 g / 13,4 oz; PM8500: 360,0 g / 12,7 oz; PM8500-D: $393,0 \mathrm{~g} / 13,8$ oz

## $1280 \times 1024$

Aiming: 630-680 nm VLD; Illumination: LED Array $630-670 \mathrm{~nm}$ 15\%
Pitch: +/- $35^{\circ}$; Roll (Tilt): $360^{\circ}$; Skew (Yaw): +/- $40^{\circ}$
Beepers, Polyphonic; Datalogic Three Green Lights (3GLM) 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

Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent

## PM8500 WA

## PM8500 HD

5 mils: 2,5 to $10,0 \mathrm{~cm} / 1,0$ to 3,9 in 10 mils: 2,0 to $16,0 \mathrm{~cm} / 0,8$ to 6,3 in 13 mils: 1,5 to $26,0 \mathrm{~cm} / 0,6$ to 10,2 in 20 mils: 1,5 to $32,0 \mathrm{~cm} / 0,6$ to 12,6 in 5 mils PDF: 3,0 to $10,5 \mathrm{~cm} / 1,2$ to 4,1 in 10 mils PDF: 1,5 to $21,5 \mathrm{~cm} / 0,6$ to 8,4 in
7,5 mils Data Matrix/QR:
5,5 to $8,5 \mathrm{~cm} / 2,1$ to 3,4 in
10 mils Data Matrix/QR:
3,2 to $12,5 \mathrm{~cm} / 1,2$ to 4,9 in
3 mils: 4,5 to $8,0 \mathrm{~cm} / 1,7$ to 3,1 in 5 mils: 3,5 to $9,5 \mathrm{~cm} / 1,3$ to 3,8 in 10 mils: 4,0 to $12,5 \mathrm{~cm} / 1,5$ to 5,0 in 13 mils : 5,0 to $14,0 \mathrm{~cm} / 1,9$ to 5,5 in 20 mils: 6,0 to $18,5 \mathrm{~cm} / 2,3$ to 7,3 in 3 mils PDF: 5,0 to $8,5 \mathrm{~cm} / 1,9$ to 3,4 in 10 mils PDF: 3,0 to $13,0 \mathrm{~cm} / 1,1$ to 5,2 in 4 mils Data Matrix/QR:

5,1 to $7,6 \mathrm{~cm} / 2,0$ to 3,0 in
10 mils Data Matrix/QR:
4,0 to $10,5 \mathrm{~cm} / 1,5$ to 4,1 in
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.
Complies to China RoHS; Complies to EU RoHS
Caution Laser Radiation - Do not stare into beam; CDRH Class II;
EN 60825-1 Class 1; IEC 60825-1 Class 2

Datalogic Aladdin configuration program is available for download at no charge


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 (SBS-8000)

Batteries/Battery Chargers

- FBP-PM80 Fixed Battery Pack (FBP-8000)
- MC-P080 Multiple Battery Charger (MC-8000)
- RBP-PM80 Removable Battery Pack (RBP8000)


Cases/Holsters

- 11-0138 Heated Holder, 36 VDC (not for use with PM8500-D models)
- 11-0139 Heated Holder, 24 VDC (not for use with PM8500-D models)
- 11-0140 Heated Holder, 48 VDC (not for use with PM8500-D models)
- HLS-P080 Universal Holster (HLS-8000)
- PC-P080, PCD-P080 Protective Case/Belt

Holster
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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Product specifications are subject to change without notice.

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