

# Specifications

## CORDLESS COMMUNICATIONS

DATALOGIC STAR CORDLESS SYSTEM™

Effective Radiated Power: 433,92 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 MHz; 910 MHz  
 Radio Range (Open Air): 433,92 MHz: Up to 50 m / 164 ft  
 910 MHz: Up to 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; 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

POSTAL CODES

STACKED CODES

## ELECTRICAL

BATTERY

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 mA @ 30 VDC; POT: 500 mA  
 External: 10 - 30 VDC; POT: 5 VDC +/- 5%

CRADLE INDICATOR LEADS

CURRENT

INPUT VOLTAGE

## ENVIRONMENTAL

AMBIENT LIGHT

0 - 100,000 lux

DROP RESISTANCE

Withstands 50 drops from 2,0 m / 6,6 ft onto a concrete surface  
 20 kV

ESD PROTECTION (AIR DISCHARGE)

HUMIDITY (NON-CONDENSING)

0 - 95%

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

## INTERFACES

RS-232 / USB / Keyboard Wedge / Wand Multi-Interface; RS-485: BC8060 Only

## PHYSICAL CHARACTERISTICS

COLORS AVAILABLE

Yellow/Black

DIMENSIONS

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

DISPLAY

PM8500-D: Display Type: Graphic with backlight  
 Font Dimensions: User selectable (4 lines x 16 columns default)  
 Screen Dimensions: 32 x 96 pixels

KEYPAD

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

1280 x 1024

LIGHT SOURCE

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

PRINT CONTRAST RATIO (MINIMUM)

15%

READING ANGLE

Pitch: +/- 35°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°

READING INDICATORS

Beeppers, Polyphonic; Datalogic Three Green Lights (3GL™) Good Read  
 Feedback: Datalogic 'Green Spot' on the Code; Dual Good Read LEDs;  
 Good Transmission

RESOLUTION (MAXIMUM)

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

### PM8500

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/QR:  
 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  
 5 mils PDF: 3,0 to 10,5 cm / 1,2 to 4,1 in  
 10 mils PDF: 1,5 to 21,5 cm / 0,6 to 8,4 in  
 7,5 mils Data Matrix/QR:  
 5,5 to 8,5 cm / 2,1 to 3,4 in  
 10 mils Data Matrix/QR:  
 3,2 to 12,5 cm / 1,2 to 4,9 in

### PM8500 HD

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  
 20 mils: 6,0 to 18,5 cm / 2,3 to 7,3 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/QR:  
 5,1 to 7,6 cm / 2,0 to 3,0 in  
 10 mils Data Matrix/QR:  
 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.

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

ENVIRONMENTAL COMPLIANCE

LASER CLASSIFICATION

## UTILITIES

DATALOGIC ALADDIN™

Datalogic Aladdin configuration program is available for download at no charge

## WARRANTY

3-Year Factory Warranty



### 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 (RBP-8000)



### Cases/Holders

- 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/Stand

- 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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DS-POWERSCANPM8500-ENA4 20090616

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