

Industrial Handheld Laser Bar Code Reader with Datalogic's STAR Cordless System™

The PowerScan PM8300 cordless laser scanners are Datalogic Scanning's premium line of rugged industrial handheld data collection products for linear codes. The PowerScan PM8300 series includes different models able to satisfy all customers' needs; the PM8300 is the basic cordless model; the PM8300-D intermediate model includes a display and 3-key keypad; and the ultimate PM8300-DK model features a display and a full 16key keyboard. The PM8300-DK model significantly increases the sophistication of interaction with the host system and opens up new potential uses of the scanner, making it suitable for applications that would normally require a more expensive portable data terminal. The mobile phone-like keyboard allows for the manual entering of bar codes that are not readable and enables easy management of simple code-quantity applications like inventory, picking, receiving, etc.

Narrow band radio communications with Datalogic's STAR Cordless System™ provides the key to increased productivity and flexibility in the workplace. It offers scalable solutions from

simple point-to-point applications to networking capabilities combined with seamless roaming for complex installations.

The PM8300 readers feature Datalogic's exclusive 3 Green Lights (3GL™) 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. Superior reading performance is enhanced by Datalogic's patented PuzzleSolver™ technology for fast and accurate reading of standard, poorly printed and damaged codes.

The PM8300 reader's mechanics have been developed and tested to withstand extreme environmental conditions maintaining consistent reading performance 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. Multi-interface capabilities feature the most popular interfaces: RS- 232, Keyboard Wedge,

popular interfaces: RS- 232, Keyboard Wedge,
Wand Emulation and USB. The Datalogic Aladdin™
configuration program provides user-friendly
features that simplify the start-up procedure, even
for inexperienced users.

Features

- Optics available in Standard Range (contact up to 1.0 m / 3.3 ft) and Auto Range (10 cm to over 12 m / 4.0 in to over 40.0 ft)
- Available in 3 models: basic, with display and 3-Key keypad, with display and full alphanumeric keypad
- 100% Compatible with Datalogic's STAR Cordless System™
- Radio frequencies available in 433 MHz or 910 MHz
- Point-to-point and multi-point transmission
- Seamless roaming
- Datalogic 3GL™ and loud beeper for good read feedback
- User replaceable lithium-ion battery
- Operates over a wide range of temperatures
- Water and Particulate Sealing Rating: IP65 / IP64 (with display)
- Drop resistance to 2.0 m / 6.5 ft











www.scanning.datalogic.com

DATALOGIC

Specifications

CORDLESS COMMUNICATIONS

DATALOGIC STAR CORDLESS SYSTEM™

DECODING CAPABILITY

1D / LINEAR CODES

STACKED CODES

ELECTRICAL

INPUT VOLTAGE

BATTERY

CURRENT

Point-to-Point Configuration Multi-Point Configuration

Effective Radiated Power: 433.92 MHz: <10 mW; 910 MHz: <1 mW Max. Readers in Same Area: 2000 Max. Readers per Radio Receiver: 32

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

Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes

Code 16K; Code 49

Battery Type: Li-ION 2150 mAh; Charge Time: External Power: 4 Hours; Host Power: 10 Hours; Reads per Charge: + 60,000

Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow) Operating (Typical): External: 1 A @ 10 V, 330 mA @ 30 V; POT: 500 mA

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

ENVIRONMENTAL

CRADLE INDICATOR LEDS

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

Immune to light exposure in offices/facilities and direct exposure to sunlight Withstands 50 drops from 2.0 m / 6.6 ft to concrete 20 kV

PM8300: IP65; PM8300-D, PM8300-DK: IP64 Operating: -20 to 50 °C / -4 to 122 °F Storage/Transport: -20 to 70 °C / -4 to 158 °F

Keyboard Wedge; RS-232; RS-485 BC8060 Only; USB; Wand

INTERFACES

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE **DIMENSIONS**

DISPLAY

KEYPAD WEIGHT

READING PERFORMANCE

LIGHT SOURCE

PRINT CONTRAST RATIO (MINIMUM) READ RATE (MAXIMUM) READING ANGLE READING INDICATORS

RESOLUTION (MAXIMUM)

READING RANGES

TYPICAL DEPTH OF FIELD

PM8300

5 mils: 2.1 to 13.3 cm / 0.8 to 5.2 in 7.5 mils: 3.5 to 24.2 cm / 1.4 to 9.5 in 10 mils: 2.9 to 42.8 cm / 1.1 to 16.8 in 13 mils: 2.3 to 55.1 cm / 0.9 to 21.7 in 20 mils: 6.3 to 78.5 cm / 2.5 to 30.9 in 40 mils: 2.5 to 97.8 cm / 1.0 to 38.5 in

SAFETY & REGULATORY

AGENCY APPROVALS

ENVIRONMENTAL COMPLIANCE LASER CLASSIFICATION

UTILITIES

DATALOGIC ALADDIN™

Yellow/Black

Cradle: 24.0 x 10.8 x 9.5 cm / 9.5 x 4.3 x 3.7 in PM8300: 20.7 x 11.4 x 6.9 cm / 8.1 x 4.5 x 2.7 in PM8300-D, PM8300-DK: 21.0 x 11.4 x 6.9 cm / 8.3 x 4.5 x 2.7 in PM8300-D, PM8300-DK: Display Type: Graphic with backlight; Font Dimensions: User selectable (4 lines x 16 columns default); Screen Dimensions:

PM8300-D Only: 3-Key Keypad; PM8300-DK Only: 16-Key Keypad

Cradle: 380.0 g / 13.4 oz; Reader: 395.0 g / 13.9 oz

630 - 680 nm VLD

Aiming: 630 - 680 nm VLD, Activated by 'Double-Click" Trigger 15%

35 +/- 5 scans/sec.

Pitch: 5 to 55° / -5 to -55°; Roll (Tilt): +/- 20°; Skew (Yaw): +/- 60° Beeper; Datalogic Three Green Lights (3GL™) Good Read Feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs; Good Transmission

PM83X0: 0.076 mm / 3 mils; PM83X0 Auto Range: 0.190 mm / 7.5 mils

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

PM8300 AR

7.5 mils: 7.0 to 46.5 cm / 2.7 to 18.3 in 10 mils: 10.8 to 99.9 cm / 4.2 to 39.3 in 13 mils: 12.7 to 147.3 cm / 5.0 to 58.0 in 20 mils: 7.0 to 215.9 cm / 2.7 to 85.0 in 40 mils: 16.0 to 340.0 cm / 6.3 to 133.8 in 55 mils: 0.2 to 4.1 m / 0.7 to 13.5 ft

Reflective - 100 mils: 0.5 to 15.0 m / 1.6 to 49.2 ft

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 EU RoHS

Caution Laser Radiation - Do not stare into beam

CDRH Class II; IEC 60825-1 Class 2

Datalogic Aladdin configuration program is available for download at no charge

3-Year Factory Warranty



- Base Stations/Chargers
 BC8030-433, BC8030-910: Base/Charger Multi-
- 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, 4-Slots (MC-8000)
- RBP-PM80 Removable Battery Pack (RBP-8000)



- 11-0138 Heated Holder, 36 VDC (not for use with PM8300-D models)
- 11-0139 Heated Holder, 24 VDC (not for use with PM8300-D models)
 11-0140 Heated Holder, 48 VDC (not for use
- with PM8300-D models)
- HLS-P080 Universal Holster (HLS-8000)
 PC-P080, PCD-P080 Protective Case/Belt Holster (PC-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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