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**General Description**

Datalogic Scanning’s PowerScan readers are the top rated industrial handheld data collection products on the market. Synthesizing knowledge and experience, Datalogic Scanning is evolving the PowerScan family to include the PowerScan 8300 series: the new corded and cordless laser barcode readers featuring state-of-the-art performance for rugged industrial use.

**Designed for Productivity:** The PowerScan 8300 readers’ ergonomic enclosures are lightweight and well-balanced ensuring optimal operator comfort during scan intensive operations. Multiple good-read feedback features and a built-in metal tether hook for suspended applications ensure workplace productivity. The PowerScan 8300 readers’ superior reading performance is enhanced by Datalogic’s patented Puzzle Solver™ technology for fast and accurate reading of standard, poorly printed and damaged bar codes.

**Superior Radio Features:** The Datalogic STAR Cordless System™ for narrow band radio communications represents the key to increased productivity and flexibility in the workplace. It offers scalable solutions to solve simple point-to-point applications as well as networking capability combined with seamless roaming for complex projects. An optional display with a 3-button keypad provides time and battery status and enables interaction with the host.

**Performance and Reliability:** The PowerScan 8300 readers’ mechanics have been developed and tested to withstand extreme environmental conditions maintaining consistent reading performance. Hard shocks (2 m / 6.5 ft drops), dust and water (IP65/IP64 sealed) and adverse temperature conditions (operative at -30 ºC / -22 ºF) do not affect product performance or reliability.

**Installation and Configuration Ease:** The PowerScan 8300 readers are offered with a full set of accessories: single and multiple battery chargers, desk/wall holder, belt and forklift holsters and a hands-free stand. All models have multi-interface capabilities built in featuring the most 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**

**PowerScan D8300/M8300**

- Standard Range (contact up to 1 m / 3.3 ft) and Auto Range (10 cm / 4 in to 10 m / 33 ft) optic models available
- Drop resistance to 2 m / 6.5 ft
- User interface: loud beeper and Datalogic 3GL™ good read feedback
- Built-in multiple interface (RS-232, Keyboard Wedge, Wand and USB)
- Undecoded TTL Laser Out Model

**PowerScan M8300**

- Available with or without display
- 433 MHz or 910 MHz radio system
- Point-to-point and multi-point transmission
- Seamless roaming
- Paging function
- 100% compatible with STAR Cordless System™
- User replaceable Lithium-Ion battery

**Applications**

- Work-in-Progress Control
- Warehouse Management
- Shipping and Receiving Control
- Cash and Carry Retail Applications
- Forklift Warehouse Applications
**PowerScan® 8300**

**Specifications**

**MODELS**

**POWER SCAN® 8300**

- **Max. Resolution**
  - Visible Laser Diode (VLD): 630 - 680 nm
  - 35 = 5 scans/sec
  - 0.076 mm/3 mil (D/M83X0); 0.19 mm/7.5 mil (D/M83X0 Auto Range)

- **Max. Scan Rate**
  - 35 ± 5 scans/sec

- **Reading Angle**
  - Skew: ±60°; Pitch: 5° to -55°; Tilt: ±20°

- **Print Contrast Ratio (min)**
  - 15%

**READER INDIATORS**

- PowerScan DB8300 (corded) & PowerScan MB8300 (cordless)

- **Power Supply**
  - 4 to 30 VDC

- **Consumption**
  - USB, RS-232, Keyboard Wedge, Wand Emulation (D8330)

- **Operating Temperature**
  - -30 to 50 °C / -22 to 122 °F

- **Ambient Light Conditions**
  - Immune to light exposure in offices, facilities, and direct exposure to sunlight

- **Humidity**
  - 90% non-condensing

- **Drop Resistance**
  - Withstands 50 drops from 2 m / 6.5 ft to concrete

- **Storage Temperature**
  - -30 to 70 °C / -22 to 158 °F

- **Weight**
  - Approx. 295 g / 10.4 oz

**SPECIFICATIONS**

- **Radio Frequency**
  - 433.92 MHz

- **Effective Radiated Power**
  - < 10 mW (433.92 MHz);
  - < 1 mW (910 MHz)

- **Radio Range**
  - Up to 50 m / 164 ft (433.92 MHz);
  - Up to 30 m / 99 ft (910 MHz), depending on the working area

**PROGRAMMING METHOD**

- Manual
- Automatic

**DATALOGIC ALADDIN™**

- Puzzle Solver™
- Data editing and concatenation
- Enhanced Features
- Reading Diagrams

**HAZARDOUS SUBSTANCES**

- Complies to EU RoHS.

**ENVIRONMENTAL PROTECTION**

- IP65 (without display)

**ENVIRONMENTAL**

- 420 mA @ 4 V; 370 mA @ 5 V; 70 mA @ 30 V (D8340)

**INTERFACES**

- USB, RS-232, Keyboard Wedge, Wand Emulation (D8330)

**CRADLE**

- BC-8030 / BC-8060

**POWER SUPPLY**

- External: max. 500 mA

**CONSUMPTION**

- Host: 5 VDC ± 10%

**RECHARGE TIME**

- External: max. 4 hrs / Host: max. 10 hrs

**DISPLAY**

- Graphic with backlight, 32 x 96 dots, and font dimension can be selected

- Approx. 13.9 oz

**BASE/CHARGER**

- BC-8030 / BC-8060


**SAFETY & REGULATORY**

- Class 2 Laser
- Complies to C-ESA-US (60950 to Canada and USA)

**EQUIPMENT**

- Complies to FCC-A, EN 55022-B, AS/NZS 3548

**COEXISTING SYSTEMS**

- Up to 2000 readers in the same area

**APPLICATIONS**

- Reading Diagrams

- STD-8000 Hands-Free Stand
- BC-8060 Base/Charger
- BC-8030 Base/Charger
- C-8000 Charger
- MC-8000 Multiple Battery Charger
- MC-8000 Single Battery Charger
- HLD-8000 Desk/Wall Holder
- HLS-8000 Universal Holster
- MC-8000 Protective Case/Belt Holster
- HH-8000 Heated Holder

**ACCESSORIES**

- Multi Battery Charger, MC-8000
- Base/Charger, BC-8060
- Spare Battery Slot, SBS-8000
- Removable Battery Pack, RBP-8000

**READING DIAGRAMS**

- Typical performance at 20 °C / 68 °F on high quality bar codes (Code 39)

**NOTE:** Information on this page is subject to change without notice.