

# PowerScan® 8300



## Industrial Handheld Laser Bar Code Reader: Desk and Mobile



**PowerScan®**

## 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 bar code 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 °C / -22 °F) 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)

### **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

## Industrial Handheld Laser Bar Code Reader

### Specifications

#### MODELS

LIGHT SOURCE  
MAX. SCAN RATE  
MAX. RESOLUTION  
PRINT CONTRAST RATIO (min)  
READING ANGLE  
READING INDICATORS  
BAR CODES

#### PROGRAMMING METHOD

Manual  
Automatic  
Datalogic Aladdin™

ENHANCED FEATURES  
AMBIENT LIGHT CONDITIONS  
HUMIDITY

#### MODELS

POWER SUPPLY  
CONSUMPTION  
INTERFACES  
OPERATING TEMPERATURE  
STORAGE TEMPERATURE  
DROP RESISTANCE  
WEIGHT  
ENVIRONMENTAL PROTECTION

#### MODELS

DISPLAY (M8300/D models only)

KEYPAD (M8300/D models only)

BATTERY TYPE  
RECHARGE TIME  
OPERATING AUTONOMY  
OPERATING TEMPERATURE  
STORAGE TEMPERATURE  
DROP RESISTANCE  
WEIGHT  
ENVIRONMENTAL  
PROTECTION

#### PowerScan D8300 (corded) & PowerScan M8300 (cordless)

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)  
Skew: ±60°; Pitch: 5 to 55°, -5 to -55°; Tilt: ±20°  
Laser ON, 3 GL™ Feedback, Beeper, Good Transmission (M8300 only)  
2/5 Family, Code 39 (plus Code 32, Cip 39), EAN/UPC, EAN 128,  
Code 128, Code 93, CODABAR, Code 49, Code MSI, Code 11, Code 16K,  
ISBN/ISSN, ISBT 128, GS1DataBar™ (formerly RSS)

Reads special bar codes  
Software commands through the RS-232 / USB interfaces  
Windows configuration program  
Puzzle Solver™, data editing and concatenation  
Immune to light exposure in offices, facilities, and direct exposure to sunlight  
90% non condensing

#### PowerScan D8300

4 to 30 VDC  
420 mA @ 4 V; 310 mA @ 5 V; 62 mA @ 30 V  
USB, RS-232, Keyboard Wedge, Wand Emulation  
-30 to 50 °C / -22 to 122 °F  
-30 to 70 °C / -22 to 158 °F  
Withstands 50 drops from 2 m / 6.5 ft to concrete  
Approx. 295 g / 10.4 oz  
IP65

#### PowerScan M8300

Graphic with backlight, 32 x 96 dots, and font dimension can be selected by the user (with default selection, 4 lines x 16 columns)  
3 keys  
Li-Ion 2150 mAh  
External: max. 4 hrs / Host: max. 10 hrs  
Over 60,000 operations  
-20 to 50 °C / -4 to 122 °F  
-20 to 70 °C / -4 to 158 °F  
Withstands 50 drops from 2 m / 6.5 ft to concrete  
Approx. 395 g / 13.9 oz  
IP65 (without display)  
IP64 (with display)

#### CRADLE

##### POWER SUPPLY

POWER  
CONSUMPTION  
READING  
INDICATORS

##### INTERFACES

##### DIMENSIONS

(without antenna)

##### WEIGHT

#### RADIO SPECIFICATIONS

RADIO FREQUENCY

910 MHz  
19,200 bauds (433.92 MHz),  
36,800 (910 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  
Max. 32 readers per radio receiver; max  
2000 readers in the same area

##### MAX. NUMBER

##### COEXISTING

##### SYSTEMS

#### SAFETY & REGULATORY

##### ELECTRICAL

Complies to C-CSA-US (60950 to Canada  
and USA)  
Complies to FCC-A, EN 55022-B, AS/NZS 3548  
CDRH Class II, (Caution: Laser Radiation - do  
not stare into beam)  
IEC 60825-1 Class 2  
ETSI-ETS 300220; FCC 15.249. For a  
complete list of approvals by country, contact  
your Datalogic Scanning Representative.  
Complies to EU RoHS.

##### RADIO

RESTRICTION OF  
HAZARDOUS  
SUBSTANCES



### Accessories



Multi Battery Charger, MC-8000



Base/Charger, BC-8060



Spare Battery Slot, SBS-8000  
Removable Battery Pack, RBP-8000

#### STD-8000 Hands-free Stand

Allows use of the reader in hands-free mode.

#### BC-8060 Base/Charger

Radio base station and reader charger. Includes RS-232, RS-485, Keyboard Wedge, Wand Emulation and USB interfaces. Compatible with the Spare Battery Slot (SBS-8000).

#### BC-8030 Base/Charger

Radio base station and reader charger. Includes RS-232, Keyboard Wedge, Wand Emulation and USB interfaces.

#### C-8000 Charger

Compatible with the Spare Battery Slot (SBS-8000).

#### SBS-8000 Spare Battery Slot

Coupled with BC-8060 or C-8000, allows spare batteries to be charged.

#### MC-8000 Multiple Battery Charger

Accommodates charging of up to 4 batteries.

#### HLD-8000 Desk/Wall Holder

Provides installation flexibility.

#### HLS-8000 Universal Holster

Allows the reader to be attached to desktops, worktables, forklift trucks and other types of support.

#### PC-8000 Protective Case/Belt Holster

Allows the reader to be worn on a belt when not in use and protects it against drops.

#### RBP-8000 Removable Battery Pack

Click on/off battery without screw for easy battery replacement and "stand-alone" charging.

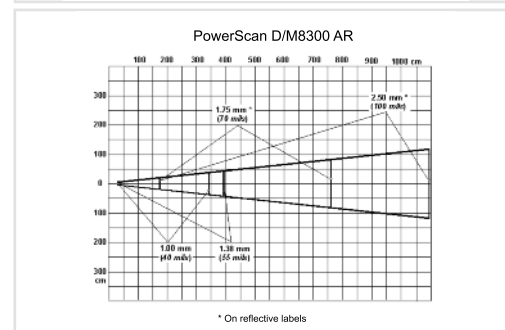
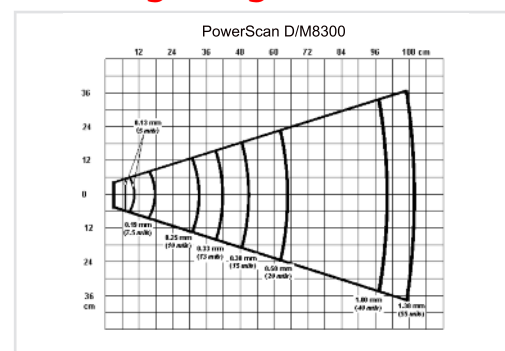
#### VMK-8000 Vehicle-Mount KIT

Kit of accessories allows easy and secure installation of BC-8030/BC-8060 cradle on forklift.

#### HH-8000 Heated Holder

Holder specifically designed for freezer applications.

### Reading Diagrams



\* On reflective labels  
**NOTE:** Typical performance at 20 °C / 68 °F on high quality bar codes (Code 39)



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## About LOGISCENTER

Grupo Logiscenter is the leading provider in Europe of automatic identification and data capture equipments. Our products include barcode printing and reading devices, mobile computing devices, wireless access points, identification cards, and consumables.

## Reasons to work with us

**Our customers come first.** Our objective is not only selling our products but also holding a long-lasting relationship with our customers, based on the benefits and advantages we create for you and your company.

**The best brands.** We offer products from the best manufacturers worldwide.

**Expert technical support team.** Our support staff are experts in the products we sell. But not just the products, they can tell you the best solution for your particular problem or need.

**Largest stock.** We have a permanent stock of more than 12,000 products.

**Same-day shipping.** For all orders placed and confirmed before 16:00 on working days.

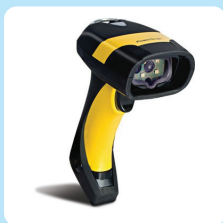
**Best prices.** With Logiscenter, you can be sure that you are paying a fair price for your products we will not overcharge you.

**Easy returns.** Damaged or defective products can be returned easily, for an exchange or reimbursement.

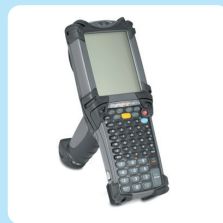
## Solutions for: Industry • Consumer • Mobility Transportation and Logistics • Retail • Health



Label printers



Barcode readers



Data terminals & PDA



PVC card printers



RFID



Consumables  
(labels, ribbons, PVC cards)

## Our Brands



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Intermec®

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DATALOGIC™



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All Brands  
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