

# 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

#### 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)  
15%  
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, GS1 DataBar™ (formerly RSS)

#### PROGRAMMING METHOD

Manual  
Automatic  
Datalogic Aladdin™

ENHANCED FEATURES  
AMBIENT LIGHT CONDITIONS  
HUMIDITY

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

#### MODELS

POWER SUPPLY  
CONSUMPTION

#### PowerScan D8300

4 to 30 VDC  
420 mA @ 4 V; 310 mA @ 5 V; 62 mA @ 30 V (D8330)  
500 mA @ 4 V; 370 mA @ 5 V; 70 mA @ 30 V (D8340)  
USB, RS-232, Keyboard Wedge, Wand Emulation (D8330),  
TTL Laser Out (D8340)

#### INTERFACES

OPERATING TEMPERATURE  
STORAGE TEMPERATURE  
DROP RESISTANCE  
WEIGHT  
ENVIRONMENTAL PROTECTION

-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

#### MODELS

DISPLAY (M8300/D models only)

#### 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)

KEYPAD (M8300/D models only)

3 keys

BATTERY TYPE

Li-Ion 2150 mAh

RECHARGE TIME

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

OPERATING AUTONOMY

Over 60,000 operations

OPERATING TEMPERATURE

-20 to 50 °C / -4 to 122 °F

STORAGE TEMPERATURE

-20 to 70 °C / -4 to 158 °F

DROP RESISTANCE

Withstands 50 drops from 2 m / 6.5 ft to concrete

WEIGHT

Approx. 395 g / 13.9 oz

ENVIRONMENTAL PROTECTION

IP65 (without display)

IP64 (with display)

#### CRADLE

POWER SUPPLY

#### BC-8030 / BC-8060

External: 10 to 30 VDC  
Host: 5 VDC ± 10%

POWER CONSUMPTION

External: max. 10 W

READING INDICATORS

Host: max. 500 mA  
Battery charging (red),  
Charge completed (green),  
Power/Data (yellow)

INTERFACES

USB, RS-232, Keyboard Wedge, Wand Emulation and RS-485

DIMENSIONS

(without antenna)  
240 x 108 x 95 mm  
(9.44 x 4.25 x 3.75 in)

WEIGHT

Approx. 380 g / 13.4 oz

#### RADIO SPECIFICATIONS

RADIO FREQUENCY 433.92 MHz

910 MHz

BIT RATE

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. NUMBER COEXISTING SYSTEMS

Max. 32 readers per radio receiver; max  
2000 readers in the same area

#### SAFETY & REGULATORY

ELECTRICAL

Complies to C-CSA-US (60950 to Canada  
and USA)

EMISSIONS

Complies to FCC-A, EN 55022-B, AS/NZS 3548  
CDRH Class II, (Caution: Laser Radiation - do  
not stare into beam)

CLASSIFICATION

IEC 60825-1 Class 2

RADIO

ETSI-ETS 300220; FCC 15.249. For a  
complete list of approvals by country, contact  
your Datalogic Scanning Representative.  
Complies to EU RoHS.

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.

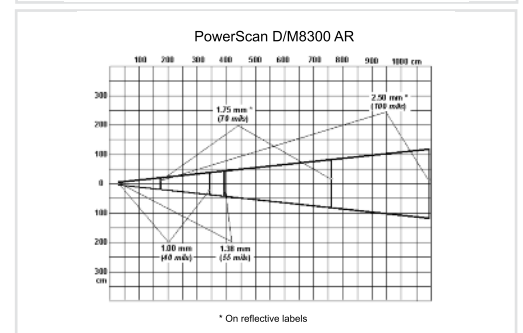
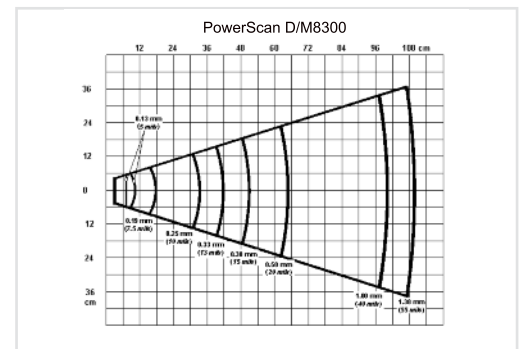
#### VMK-8000 Vehicle-Mount KIT

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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