

PowerScan® 8300



Industrial Handheld Laser Bar Code Reader: Desk and Mobile



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 (6.5 ft / 2 m drops), dust and water (IP65/IP64 sealed) and adverse temperature conditions (operative at -22 °F / -30 °C) 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 3.3 ft / 1 m) and Auto Range (4 in / 10 cm to 33 ft / 10 m) optic models available
- > Drop resistance to 6.5 ft / 2 m
- > 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

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, GS1DataBar™ (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

-22 to 122 °F / -30 to 50 °C
-22 to 158 °F / -30 to 70 °C
Withstands 50 drops from 6.5 ft / 2 m to concrete
Approx. 10.4 oz / 295 g
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

-4 to 122 °F / -20 to 50 °C

STORAGE TEMPERATURE

-4 to 158 °F / -20 to 70 °C

DROP RESISTANCE

Withstands 50 drops from 6.5 ft / 2 m to concrete

WEIGHT

Approx. 13.9 oz / 395 g

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

External: max. 10 W

CONSUMPTION

Host: max. 500 mA

READING

Battery charging (red),

INDICATORS

Charge completed (green),

Power/Data (yellow)

INTERFACES

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

DIMENSIONS

(without antenna)

9.44 x 4.25 x 3.75 in

WEIGHT

(240 x 108 x 95 mm)

Approx. 13.4 oz / 380 g

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 164 ft / 50 m (433.92 MHz);

Up to 99 ft / 30 m (910 MHz),

depending on the working area

MAX. NUMBER

COEXISTING

Max. 32 readers per radio

SYSTEMS

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

LASER

CDRH Class II, (Caution: Laser Radiation - do

CLASSIFICATION

not stare into beam)

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 with 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.

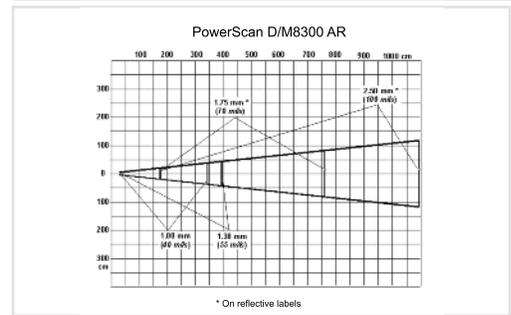
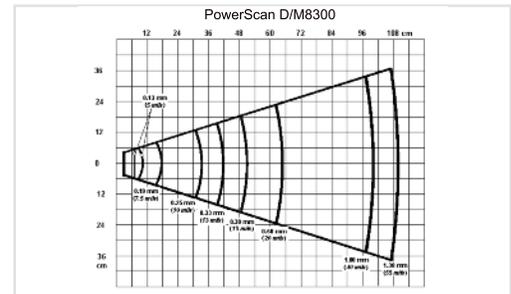
VMK-8000 Vehicle-Mount KIT

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



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