PowerScan® 8300

Industrial Handheld Laser Bar Code Reader: Desk and Mobile

◆DATALOGIC™

3 Green Lights (3GL™)

Forklift Solution

STAR-System™ compatible

THREE YEAR WARRANTY · DATALOGIC

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)
> 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	PowerScan D8300 (corded) & PowerScan M8300 (cordless)
LIGHT SOURCE	Visible Laser Diode (VLD) 630 - 680 nm
MAX. SCAN RATE	35 ± 5 scans/sec
MAX. RESOLUTION	0.076 mm/3 mil (D/M83X0); 0.19 mm/7.5 mil (D/M83X0 Auto Range)
PRINT CONTRAST RATIO (min)	15%
READING ANGLE	Skew: ±60°; Pitch: 5 to 55°, -5 to -55°; Tilt: ±20°
READING INDICATORS	Laser ON, 3 GL™ Feedback, Beeper, Good Transmission (M8300 only)
BAR CODES	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	Reads special bar codes
Automatic	Software commands through the RS-232 / USB interfaces
Datalogic Aladdin™	Windows configuration program
ENHANCED FEATURES	Puzzle Solver™, data editing and concatenation
AMBIENT LIGHT CONDITIONS	Immune to light exposure in offices, facilities, and direct exposure to sunlight
HUMIDITY	90% non condensing

MODELS	PowerScan D8300
POWER SUPPLY	4 to 30 VDC
CONSUMPTION	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)
INTERFACES	USB, RS-232, Keyboard Wedge, Wand Emulation (D8330), TTL Laser Out (D8340)
OPERATING TEMPERATURE	-30 to 50 °C / -22 to 122 °F
STORAGE TEMPERATURE	-30 to 70 °C / -22 to 158 °F
DROP RESISTANCE	Withstands 50 drops from 2 m / 6.5 ft to concrete
WEIGHT	Approx. 295 g / 10.4 oz
ENVIRONMENTAL PROTECTION	IP65

MODELS	PowerScan M8300
DISPLAY (M8300/D models only)	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	BC-8030 / BC-8060
POWER SUPPLY	External: 10 to 30 VDC Host: 5 VDC ± 10%
POWER CONSUMPTION	External: max. 10 W Host: max. 500 mA
READING INDICATORS	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
LASER CLASSIFICATION	CDRH Class II, (Caution: Laser Radiation - do 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.
RESTRICTION OF HAZARDOUS SUBSTANCES	Complies to EU RoHS.

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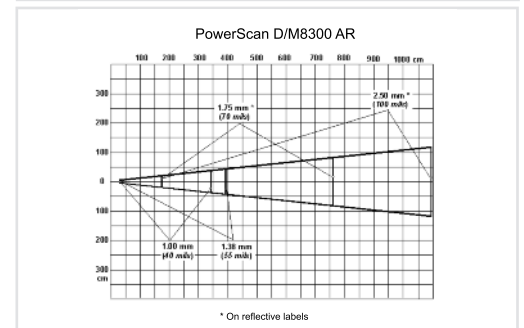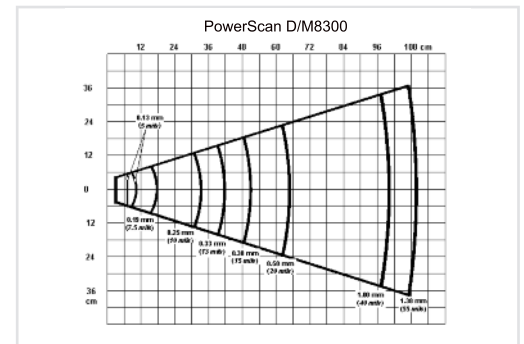Click on/off battery without screw for easy battery replacement and "stand-alone" charging.

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

PowerScan D/M8300

PowerScan D/M8300 AR

* On reflective labels

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

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