♦DATALOGIC_™



Industrial Handheld Linear Imager Bar Code Reader with Bluetooth® Wireless Technology

The PowerScan 7100 product series are
Datalogic Scanning's value line of rugged
industrial handheld data collection products.
The PowerScan PBT7100 linear imaging
bar code reader with Bluetooth® wireless
technology offers operator freedom from cable
entanglement, rugged durability and extremely
snappy reading performance all at an affordable
price.

Datalogic Scanning's innovative and unique optical design of the PowerScan 7100 series of readers combines features that are normally available on different models into a single device: up to 3 mils maximum code resolution; contact to over 3.0 m / 9.8 ft reading distance on standard paper labels; and wide angle code reading. The result is a versatile, easy to use and intuitive scanner that simplifies any code reading activity.

Together high-speed digital hardware and Datalogic Scanning's advanced decoding algorithms produce read rates up to 390 scans per second, making the PowerScan 7100 readers the fastest industrial scanners available. This is why the 7100's are especially suitable for "high-

speed" applications where thousands of codes have to be read in a very short period of time.

Bluetooth® wireless technology can be implemented through the base station or by connecting the scanner directly to any commercial or embedded Bluetooth® compliant device allowing an operator mobility range of up to 100 m / 328 ft.

The base station is offered with two different multi-interface combinations; the Standard multi-interface includes RS-232, Keyboard Wedge, Wand Emulation and USB; the POS multi-interface set includes RS-232, IBM46xx and USB.

A loud beeper and Datalogic's exclusive patented 'Green Spot' directly on the code, provide intuitive good read feedback in noisy environments. The Datalogic Aladdin™ configuration program provides user-friendly features that simplify the start-up procedure, even for inexperienced users.

Light weight and instinctive usage combined with outstanding speed-to-read makes the PowerScan 7100 product series the ideal solution for intensive code reading applications.

Features

- Fastest speed-to-read 390 scans/ second
- Datalogic 'Green Spot' and loud beeper for good read feedback
- Bluetooth Wireless Technology with up to 100 m / 328 ft range
- Connectivity through the Base Station or directly to other Bluetooth devices
- Water and particulate sealing rating: IP65
- Drop resistance to 2.0 m / 6.5 ft
- 25kV Electrostatic protection (air discharge)
- Model option with aimer for optimal code pointing











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Specifications

CORDLESS COMMUNICATIONS

BLUETOOTH WIRELESS TECHNOLOGY

Protocol: Bluetooth 2.0 Certified Class 1 Radio Frequency: 2.40 to 2.48 GHz Radio Range (Open Air): 100.0 m / 328.1 ft

DECODING CAPABILITY

1D / LINEAR CODES

POSTAL CODES STACKED CODES

ELECTRICAL

BATTERY

CURRENT

INPUT VOLTAGE

ENVIRONMENTAL

AMBIENT LIGHT DROP RESISTANCE ESD PROTECTION (AIR DISCHARGE) **HUMIDITY (NON-CONDENSING)** PARTICULATE AND WATER SEALING TEMPERATURE

INTERFACES

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE DIMENSIONS

WEIGHT

READING PERFORMANCE

LIGHT SOURCE ILLUMINATION PRINT CONTRAST RATIO (MINIMUM) READ RATE (MAXIMUM) **READING ANGLE**

READING INDICATORS

RESOLUTION (MAXIMUM)

READING RANGES

TYPICAL DEPTH OF FIELD

Autodiscriminates all standard 1D codes including GS1 DataBar™

linear codes

GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar

Stacked Omnidirectional

Battery Type: Lithium-Ion, 2400 mAh Charge Time: External Power: 4 Hours Reads per Charge: 22,000 in 16 Hours Operating (Typical): BC70X0: 280 mA @ 5 VDC Standby/Idle (Typical): BC70X0: 210 mA @ 5 VDC 5 VDC +/- 5%; 7 - 14 VDC

100,000 lux

Withstands 50 drops from 2.0 m / 6.6 ft onto a concrete surface

25 kV 5 - 95% IP65

Operating: -20 to 50 $^{\circ}$ C / -4 to 122 $^{\circ}$ F

Storage/Transport: -40 to 60 °C / -40 to 140 °F

RS-232 / IBM 46XX / USB Multi-Interface

RS-232 / USB / Keyboard Wedge / Wand Multi-Interface

Black: Yellow/Black

Cradle: 23.9 x 11.7 x 4.8 cm / 9.4 x 4.6 x 1.9 in Reader: 20.3 x 7.6 x 11.4 cm / 8.0 x 3.0 x 4.5 in

Cradle: 326.2 g / 11.5 oz Reader: 354.4 g / 12.5 oz

Aiming: 630 - 680 nm VLD LED Array 630 - 670 nm

15%

Pitch: +/- 65°; Roll (Tilt): +/- 30°; Skew (Yaw): +/- 65°

Beeper (Adjustable Tone and Volume); Datalogic 'Green Spot' Good

Read Feedback; Good Read LED

0.076 mm / 3 mils

Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

5 mils: 1.5 to 14.0 cm / 0.6 to 5.5 in 7.5 mils: 0 to 44.0 cm / 0 to 17.3 in 10 mils: 0 to 60.0 cm / 0 to 23.6 in 13 mils: 0 to 80.0 cm / 0 to 31.5 in 20 mils: 0 to 119.0 cm / 0 to 46.9 in 40 mils: 2.0 to 240.0 cm / 0.8 to 94.5 in

Reflective - 55 mils: 5.0 to 300.0 cm / 2.0 to 118.1 in Reflective - 100 mils: 13.0 to 530.0 cm / 5.1 to 208.7 in

SAFETY & REGULATORY

ENVIRONMENTAL COMPLIANCE

AGENCY APPROVALS

The product meets necessary safety and regulatory approvals for its intended use.

The Quick Reference Guide for this product can be referred to for a

complete list of certifications.

Complies to China RoHS; Complies to EU RoHS Caution Laser Radiation - Do not stare into beam; EN 60825-1 Class 1

UTILITIES

DATALOGIC ALADDIN™

LASER CLASSIFICATION

REMOTE HOST DOWNLOAD

WARRANTY

Datalogic Aladdin configuration program is available for download

Lowers service costs and improves operations

3-Year Factory Warranty

- Base Stations/Chargers
 BC7010 Base/Charger, RS-232 / IBM 46XX / USB Multi-Interface
- BC7030 Base/Charger, RS-232 / USB / Keyboard Wedge / Wand Multi-Interface

- Batteries/Battery Chargers

 11-0202 Battery Charger, 4 Station, US T&L

 11-0203 Battery Charger, 4 Station, US Std

 11-0204 Battery Charger, 4 Station, Europe

 11-0205 Battery Charger, 4 Station, UK

 11-0234 Battery Pack



Cases/Holsters

- 11-0138 Heated Holder, 36 VDC
 11-0139 Heated Holder, 24 VDC
 11-0140 Heated Holder, 48 VDC



Mounts/Stands

- 11-0110 Hands Free Stand11-0111 Universal Mounting Kit7-0404 Industrial Take-Up Reel

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