



## INDUSTRIAL HANDHELD LINEAR IMAGER BAR CODE READER WITH BLUETOOTH® WIRELESS TECHNOLOGY

The PowerScan 7100 product series are Datalogic ADC'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 ADC'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 ADC'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, IBM 46xx 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



## 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** Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.

**POSTAL CODES** China Post

**STACKED CODES** GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional

## ELECTRICAL

**BATTERY** Battery Type: Lithium-Ion, 2400 mAh  
Charge Time: External Power: 4 Hours  
Reads per Charge: 22,000 in 16 Hours

**CURRENT** Operating (Typical): BC70X0: 280 mA @ 5 VDC  
Standby/Idle (Typical): BC70X0: 210 mA @ 5 VDC

**INPUT VOLTAGE** 5 VDC +/- 5% ; 7 - 14 VDC

## ENVIRONMENTAL

**AMBIENT LIGHT** 100,000 lux

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

**ESD PROTECTION (AIR DISCHARGE)** 25 kV

**HUMIDITY (NON-CONDENSING)** 5 - 95%

**PARTICULATE AND WATER SEALING** IP65

**TEMPERATURE** Operating: -20 to 50 °C / -4 to 122 °F  
Storage/Transport: -40 to 60 °C / -40 to 140 °F

## INTERFACES

**INTERFACES** RS-232 / IBM 46XX / USB Multi-Interface  
RS-232 / USB / Keyboard Wedge / Wand Multi-Interface

## PHYSICAL CHARACTERISTICS

**COLORS AVAILABLE** Black; Yellow/Black

**DIMENSIONS** 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

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

## READING PERFORMANCE

**LIGHT SOURCE** Aiming: 630 - 680 nm VLD

**ILLUMINATION** LED Array 630 - 670 nm

**PRINT CONTRAST RATIO (MINIMUM)** 15%

**READ RATE (MAXIMUM)** 390 reads/sec.

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

**READING INDICATORS** Beeper (Adjustable Tone and Volume); Datalogic 'Green Spot' Good Read Feedback; Good Read LED

**RESOLUTION (MAXIMUM)** 0.076 mm / 3 mils

## READING RANGES

**TYPICAL DEPTH OF FIELD** 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

**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.

**ENVIRONMENTAL COMPLIANCE** Complies to China RoHS; Complies to EU RoHS

**LASER CLASSIFICATION** Caution Laser Radiation - Do not stare into beam; EN 60825-1 Class 1

## UTILITIES

**DATALOGIC ALADDIN™** Datalogic Aladdin configuration program is available for download at no charge.

**REMOTE HOST DOWNLOAD** Lowers service costs and improves operations.

## WARRANTY

**WARRANTY** 3-Year Factory Warranty

## ACCESSORIES



### 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 Stand
- 11-0111 Universal Mounting Kit for PowerScan
- 7-0404 Industrial Take Up Reel