

# PowerScan™ LR & XLR

Industrial Bar Code Scanners



#### Ideal For:

- Forklift Scanning Applications
- Warehousing & Outdoor Use
- Inventory Control
- Heavy-Duty Manufacturing

#### Features:

- Operating range from 15 cm / 6" to 11 m / 36'
- Robust for tough industrial applications
- Flexible and extensive interface capabilities
- Integrated metal tether hook
- Programmable beeper tone, marker beam, and volume
- Variety of flexible mounting and storage accessories available

## The Premier Long Range & Extra Long Range Industrial Performance Scanners

The PowerScan™ LR and XLR scanners have been specifically designed "from the ground up" to meet the demands of tough industrial applications – especially where some labels are scanned up close and others at great distances. The PowerScan™ LR will read a 10 mil label as close as 18 cm / 7" and a 100 mil reflective label 6.7 m / 22' away. With the XLR model you can read 20 mil labels as close as 71 cm / 28" and 100 mil reflective labels as far away as a whopping 11 m / 36'.

In any long-range application, you can rely on either the PowerScan™ LR or XLR for fast, accurate bar code reading of both paper and reflective labels. PSC's QuadraLogic™ II decoding software enables users to successfully read most dirty, smudged and damaged labels—labels that were previously considered unreadable.

## Dependable In The Harshest Conditions

Even in the harshest working environments, you can depend on the PowerScan™ LR & XLR to keep on working. Designed to meet the most stringent drop specification in the industry, the scanner will withstand multiple 2 m / 6.5' drops to concrete. The PowerScan scanner has a sealing rating of IP54 which means it can withstand intermittent rain showers and keep on working. PowerScan also operates over a wide temperature range, from -30° C / -22° F to 50° C / 122° F.



# Specifications

## PowerScan™ LR & XLR

### Mechanical

**Dimensions:** 6.9 x 11.2 x 18.3 cm  
**Weight**  
 Scanner: 280 g without cable

### Electrical

**Operating voltage:** 4 VDC to 14 VDC  
**Operating current – nominal**  
 Undecoded: 80mA @ 5 VDC  
 Decoded: 95mA @ 5 VDC  
**Idling current – low power mode:**  
 <50µA @ 5 VDC

### Optical

**Light source:** 650nm Visible Laser Diode (VLD)  
**Scan system:** Frictionless flexure mechanism  
**Rate:** 37 scans/sec. nominal  
**Depth-of-field:** Refer to chart on this page  
**Print contrast ratio:** 25% minimum  
**Pitch:** ±65°  
**Skew:** ±55°  
**Ambient light immunity**  
 Artificial light: 12,900 Lux / 1,200 foot candles  
 Sunlight: 86,100 Lux / 8,000 foot candles

### Environmental

**Temperature rating**  
 Operating: -30° to 50° C / -22° to 122° F  
 Storage: -40° to 70° C / -40° to 158° F  
**Humidity:** 5 to 95% NC  
**Shock (at 23°C):** withstands multiple 2 m / 6.5' drops to concrete  
**Vibration:** meets MIL-STD-810E  
**Water & Dust:** IEC529 rating IP54DW

### Decoding Capability

(autodiscriminates between)  
 UPC A, E / EAN 8, 13 / JAN 8, 13  
 (P2 / P5, Code 128 EAN add-ons)  
 Code 128 Codabar  
 Code 39 Interleaved 2 of 5  
 Code 39 Full ASCII Standard 2 of 5  
 Pharmacode 39 MSI / Plessey  
 Code 93

### Communications

**Undecoded:** Standard and Intermec-compatible  
**Multi-interface modules** (interchangeable, AutoSelect™ cable determines active interface):  
 RS232C / Standard Keyboard Wedge / Wand Emulation  
 Universal Keyboard Wedge / RS232C\*  
 IBM 46XX / RS232C  
 \*This RS232 interface only supports RXD and TXD, no control signals are available.

### Safety & Regulatory

**Electrical:** Complies to Gost R; TÜV; UL; cUL  
**Emissions:** Complies to FCC-A; EN 55022-B  
 BCIQ CNS13438; AS/NZS 3548; VCCI-B  
**Laser classification:** CDRH Class II (LR);  
 CDRH Class IIIA (XLR);  
 (CAUTION: Laser Light – Avoid direct eye exposure);  
 IEC 60825 Class 2 (LR & XLR)



### Available Mount Options



P/N: 7-0404 Take Up Reel      P/N: 7-0658 Heated Holder      P/N: 7-0430 Holster/Fork Lift      P/N: 7-0462 Universal Kit

Depth-of-Field Chart - (printing resolution, contrast and ambient light dependent)		
Label Density Paper Labels	Long Range (Decoded, Code 39) Range	Extra Long Range (Decoded, Code 39) Range
75 mil	20 to 33 cm / 8" to 13"	
10 mil	18 to 51 cm / 7" to 20"	
15 mil	18 to 81 cm / 7" to 32"	102 to 152 cm / 3.3' to 5.0'
20 mil	15 to 122 cm / 6" to 4'	71 to 183 cm / 2.3' to 6.0'
40 mil	23 to 213 cm / 9" to 7'	71 to 366 cm / 2.3' to 12.0'
55 mil	38 to 274 cm / 15" to 9'	102 to 457 cm / 3.3' to 15.0'
Reflective Labels		
40 mil	56 to 254 cm / 20" to 8.3'	102 to 457 cm / 3.3' to 15.0'
70 mil	101 to 457 cm / 40" to 15.0'	203 to 762 cm / 6.7' to 25.0'
100 mil	116 to 671 cm / 40" to 22.0'	203 to 1097 cm / 6.7' to 36.0'

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**Specifications are subject to change without notice.**  
 Additional information concerning this product or other PSC products and services can be found at the PSC website: [www.pscnet.com](http://www.pscnet.com);  
 or contact your PSC representative for more information.



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