

# PowerScan™

Industrial Bar Code Scanner



#### **Ideal For:**

- Warehousing & Outdoor use
- Transportation & Logistics
- Package Distribution
- Electronic Assembly
- Heavy-Duty Manufacturing

#### **Features:**

- QuadraLogic™ II decoding software for superior scanning performance
- Multi-interface modules provide ultimate flexible connectivity
- Positive trigger feedback for gloved hand operation
- Integrated metal tether hook
- Programmable scan angle, beeper tone, & volume
- Field upgradable Flash Memory
- Flexible mounting and storage accessories available

#### **A Tough Tool For Your Toughest Jobs**

##### **PowerScan™: Setting a New Standard**

The PowerScan family of handheld laser bar code scanners has been specifically designed "from the ground up" to meet the demands of industrial users. In this tough environment, the right tool makes all the difference. With a PSC PowerScan scanner on the job, you'll have one of the toughest, most reliable tools around.

You can rely on the PowerScan scanner for fast, accurate bar code reading, from up close to over 60" / 152 cm away. Even labels previously thought to be unreadable can now be read using PSC's new superior decoding software, QuadraLogic™ II. The scanner will autodiscriminate all standard bar code symbologies and automatically adjusts to read a wide range of code densities.

##### **Dependable In The Harshest Conditions**

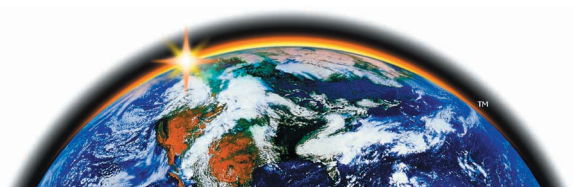
Even in the most harsh working environments, you can depend on the PowerScan scanner to keep on working. Designed to meet the most stringent drop specification in the industry, the scanner will withstand multiple 6.5' / 2 m drops to concrete. Even dust and moisture won't phase it. In fact, the PowerScan scanner has a rating of IP54, which means it meets or exceeds the sealing rating of every portable host terminal on the market. And don't worry about weather conditions – the PowerScan scanner operates over a wide temperature range, from below freezing to over 122° F / 50° C.

##### **Built To Stand Up To Abuse**

Handheld scanners often are dropped and abused, so this scanner has been designed with high impact-resistant material and incorporates protective rubber cushioning at every point of impact. The frictionless can mechanism, with a limited life-time warranty, and all internal optical components, are shock mounted to maintain precise alignment under high shock loads. The scan window is made of shatter-proof material and is diamond coated to resist scratching. Even the replaceable interface cable is protected with an integrated metal strain relief.

##### **Innovative Host Connectivity**

The PowerScan scanner has a broad range of communication options using unique multi-interface modules, which allow for connection to most host computer systems. Our AutoSelect™ feature allows you to quickly move between different hosts and applications by simply changing cables. In addition PowerScan's low current draw, combined with its low power mode, make it ideal for use with battery operated terminals.



# Specifications

## PowerScan™

### PRODUCT

#### Mechanical

**Dimensions:** 2.7 x 4.4 x 7.2" / 6.9 x 11.2 x 18.3 cm

#### Weight

Scanner: 9.9 ozs. / 280 g  
Cable (32"/82.3 cm): 6.2 ozs. / 176 g

#### Cable length options

Collapsed: 32" / 81 cm,  
Max. Working: 72" / 183 cm;  
Collapsed: 80" / 203 cm,  
Max. Working: 120" / 305 cm  
(For other cable options, contact your  
PSC sales representative.)

#### Optical

**Light source:** Extra Bright 650nm  
Visible Laser Diode (VLD)  
**Scan system:** Frictionless lifetime  
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: 1,200 foot candles / 12912 Lux  
Sunlight: 8,000 foot candles / 86080 Lux

#### Electrical

**Operating voltage:** 4 VDC to 14 VDC  
**Operating current** – nominal  
Undecoded: 75mA @ 5 VDC  
Decoded: 100mA @ 5 VDC  
**Idling current** – low power mode:  
<50µA @ 5 VDC

#### Environmental

**Temperature rating**  
Operating: -22° to 122° F / -30° to 50° C  
Storage: -40° to 158° F / -40° to 70° C  
**Humidity:** 5 to 95% NC  
**Shock** (at 23°C): withstands multiple 6.5' / 2 m  
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  
Pharmacode 39 Code 39 Full ASCII  
Code 39 Code 93  
Interleaved 2 of 5 Standard 2 of 5  
MSI / Plessey BC412 (upon request)

#### Communications

**Undecoded:** Standard and Intermec-compatible  
**Multi-interface modules** (interchangeable,  
AutoSelect™ cable determines active interface):  
RS232C / Standard Keyboard Wedge /  
Wand Emulation  
Universal Keyboard Wedge / RS232\*  
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;  
(CAUTION: Laser Radiation –  
do not stare into beam);  
IEC 60825 Class 2



#### Available Mount Options



P/N: 7-0477  
AutoSense®

P/N: 7-0404  
Take Up Reel

P/N: 7-0462  
Universal Kit

P/N: 7-0430  
Holster/Fork Lift

#### Depth-of-Field Chart – (printing resolution, contrast and ambient light dependent)

Label Density	Standard (decoded)		High Density (decoded)	
	Range		Range	
Paper Labels	3 mil		1.0" to 2.0"	2.5 to 5.1 cm
	4 mil		1.0" to 2.0"	2.5 to 8.0 cm
	5 mil		0.8" to 3.8"	2.0 to 10.0 cm
	7.5 mil	3.0" to 6.0" / 9.0 to 15.0 cm	0.6" to 4.5"	1.5 to 11.0 cm
	10 mil	1.5" to 15.0" / 4.0 to 38.0 cm	0.2" to 5.5"	0.5 to 14.0 cm
	15 mil	1.0" to 25.0" / 2.5 to 64.0 cm		
	20 mil	1.0" to 35.0" / 2.5 to 89.0 cm		
	55 mil	6.0" to 60.0" / 15.0 to 152.0 cm		

#### Corporate Headquarters

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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.



#### PSC Worldwide Sales and Service locations

Australia - NSW Tel: 61 2 9878 8999 Fax: 61 2 9878 8688	Australia Tel: 61 3 9281 3288 Fax: 61 3 9243 5510	Belgium Tel: 32 2 414 74 09 Fax: 32 2 410 11 63	Brazil Tel: 55 11 5507 7721 Fax: 55 11 5507 7696	Chile Tel: 562-339-7000 Fax: 562-339-7985	China Tel: 86 10 6857 9048 Fax: 86 10 6857 8699	China - South Tel: 86 20 8765 9955 Fax: 86 20 8765 9955	France Tel: 33 1 64 86 71 00 Fax: 33 1 64 46 72 44
Germany Tel: 49 6151 93580 Fax: 49 6151 93588	Hong Kong Tel: 852 25846210 Fax: 852 25210291	India Tel: 91 11 4621586 Fax: 91 11 4623305	Italy Tel: 39 039 629031 Fax: 39 039 6859496	Japan Tel: 81 3 3491 6761 Fax: 81 3 3491 6656	Latin America Tel: 1 305 539 0111 Fax: 1 305 539 0206	Singapore Tel: 65 435 1311 Fax: 65 226 1242	Spain Tel: 34 91 203 65 00 Fax: 34 91 203 65 01
Sweden Tel: 46 4010 84 92 Fax: 46 4010 84 91	Turkey Tel: 90 212 23691 15 Fax: 90 212 23691 16	United Kingdom Tel: 44 1923 809500 Fax: 44 1923 809505					