

# PowerScan™ RF

Industrial Bar Code Scanners



#### **Ideal for:**

- Warehousing and Shipping/Receiving
- Logistics and Transportation
- Outdoor Applications
- Retail POS

#### **Features:**

- Wireless operation up to 150' / 46 m away from the base station
- Operates up to 8 hours on a single charge
- Scanner & Base Station are IP54 rating for dust and wind-blown rain
- QuadraLogic™ II decoding software for superior scanning performance
- Multi-point operation allows for multiple scanner communications to a single base station

#### **A Tough Portable Tool for your Toughest Jobs.**

Freedom! Are restrictive interface cables keeping you from doing business the way you want? Are you restricted to scanning only in the 8 m / 25' area around your host terminal? Well, not anymore!

With the PSC PowerScan RF wireless scanner, you now have the freedom to go where the work is, not the other way around. Now you only have to take the 363 g / 12.7 oz. PowerScan RF scanner to the 227 kg / 500 lb. pallet; not the pallet to the scanner.

Utilizing the latest in Radio Frequency (RF) technology, the PowerScan RF has a range of up to 46 m / 150'. This allows you the freedom to scan pallets at the other end of the loading dock or boxes at the end of a warehouse aisle up to 46 m / 150' from your fork truck. Its unique acknowledgment tone lets you know that your data transmission was successful. With multi-point capability the PowerScan RF allows you to assign multiple scanners to a single base station thereby increasing throughput and reducing the cost of additional base stations and host terminals.

The convenient base/docking station charges the battery every time the scanner is inserted. The PowerScan RF can operate up to 8 hours or more on a single charge of the battery pack. Changing the battery is a quick 5 second job. An optional four station battery charger lets you charge up to 4 battery packs at a time. The base station can be mounted on a counter, a wall or even a fork truck. The uniquely designed latch keeps the scanner in place even if your fork truck is going over floor grates or speed bumps.

#### **Built for Rugged Industrial Environments**

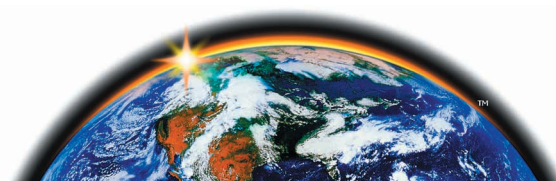
The Powerscan RF is based on the original PowerScan™ laser scanner, the first scanner designed from the ground up for rugged industrial use. The RF meets the same tough environmental standards such as an IP54 rating for dust and wind blown rain. And a drop specification of thirty (30) 2 m / 6' drops to concrete!

All models of PowerScan RF have the same rugged features that have made PowerScan scanners the choice for tough industrial applications.

- High impact enclosure with protective rubber cushioning.
- Frictionless scan mechanism with a limited lifetime warranty.
- Shock mounted optical components.
- Diamond-coated, shatter-proof window.
- Flash Memory for easy field upgrades.

#### **4 Different Models To Fit Your Needs**

If you need to read small, high density labels at 5 cm / 2" or reflective labels at 11 m / 35' up on the side of a warehouse storage rack, there is a model for you. The PowerScan RF models include High Density (HD), Standard Range (SR), Long Range (LR) and Extra Long Range (XLR). And every model is equipped with QuadraLogic™ II decoding software to read torn, disfigured and poorly printed labels.



# Specifications

PowerScan™ RF

## PRODUCT

### Mechanical

#### Dimensions

Scanner: 23.8 x 10.2 x 7.0 cm / 9.4 x 4.0 x 2.8"

Base Station: 26.7 x 8.9 x 6.4 cm /

10.5 x 3.5 x 2.5"

**Weight** – Scanner: 363 g / 12.7 ozs.

### Optical

**Light source:** Extra Bright 650nm

Visible Laser Diode (VLD)

**Scan system:** Frictionless lifetime flexure mechanism

**Rate:** 37 scans/sec. nominal

**Print contrast ratio:** 25% minimum

**Pitch:** ±65°

**Skew:** ±55°

#### Ambient light immunity

Artificial light: 12600 Lux / 1,200 ft-candles

Sunlight: 84000 Lux / 8,000 ft-candles

### Decoding Capability (autodiscriminates between)

- UPC/EAN/JAN
- Code 39
- Interleaved 2 of 5
- IATA 2 of 5
- MSI Plessey
- Code 128
- Code 93
- Standard 2 of 5
- Codabar
- EAN128

### Electrical

#### Voltage

Operating – Scanner: 2.4 VDC (NiMH batteries)

**Operating current** – nominal

Scanner: 200mA @ 2.45 VDC (6000 scans per charge)

**Input Power Requirements**

Base Station – US: 110V ± 10%, 60 Hz;

Europe: 220V ± 10%, 50 HZ

**Battery Charge Time:** 4 hours (90%), 6 hours (100%)

### Communications

#### Host:

- RS232 Serial
- PC (XT, AT, PS2)
- USB Keyboard
- Universal Keyboard Wedge (supports over 2,000 PC's and Terminals)
- Wand Emulation
- IBM 46XX

#### Radio:

- Multi-point operation up to 8 scanners to one base station
- Channels – 10 each, software selectable
- Range (high power) 150' (46 m) line of sight
- Frequency range (varies by country) – 902 MHz - 928 MHz; 433.05 MHz - 434.79 MHz

### Environmental

#### Temperature rating

Operating: -10° to 50° C / 14° to 122° F

Storage: -20° to 60° C / -4° to 140° F

**Humidity:** 5 to 95% non-condensing

**Shock** (at 23°C)

Scanner: multiple 2 m / 6' drops to concrete;

Base Station: multiple 1 m / 4' drops to concrete

**Vibration:** meets MIL-STD-810E

**Water & Dust:** IEC529 rating IP54DW

### Safety / Regulatory

**Electrical:** Complies to: TÜV; UL; cUL

**Emissions:** Complies to: FCC-A; EN 55022-B;

BCIQ CNS13438; AS/NZS 3548

**Laser classification:** CDRH Class II;



(CAUTION: Laser Radiation –

do not stare into beam);

IEC 60825 Class 2

Radio: ETSI-ETS-300 220;

FCC Part 15.249

(For a complete list of approvals by country contact your PSC representative)



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

Label Density	Standard Range (decoded)		High Density (decoded)		Long Range (decoded, Code 39)		Extra Long Range (decoded, Code 39)	
	Range		Range		Range		Range	
Paper Labels	3 mil		2.5 to 51 cm / 1.0" to 2.0"					
	4 mil		2.5 to 8.0 cm / 1.0" to 3.0"					
	5 mil		2.0 to 10.0 cm / 0.8" to 3.8"					
	7.5 mil	9.0 to 15.0 cm / 3.0" to 6.0"	1.5 to 11.0 cm / 0.6" to 4.5"		20 to 33 cm / 8" to 13"			
	10 mil	4.0 to 38.0 cm / 1.5" to 15.0"	0.5 to 14.0 cm / 0.2" to 5.5"		18 to 50 cm / 7" to 20"			
	15 mil	2.5 to 64.0 cm / 1.0" to 25.0"			18 to 80 cm / 7" to 32"	101 to 152 cm / 3.3' to 5.0'		
	20 mil	2.5 to 89.0 cm / 1.0" to 35.0"			13 to 122 cm / 5" to 4'	71 to 183 cm / 2.3' to 6.0'		
	40 mil				20 to 213 cm / 8" to 7'	71 to 366 cm / 2.3' to 12.0'		
Reflective Labels	55 mil	15.0 to 152.0 cm / 6.0" to 60.0"			38 to 274 cm / 15" to 9'	101 to 457 cm / 3.3' to 15.0'		
	40 mil				56 to 254 cm / 22" to 8.3'	101 to 457 cm / 3.3' to 15.0'		
	55 mil				76 to 366 cm / 30" to 12.0'			
	70 mil				101 to 457 cm / 3.3' to 15.0'	204 to 730 cm / 6.7' to 24.0'		
	100 mil				116 to 671 cm / 3.8' to 22.0'	204 to 1097 cm / 6.7' to 36.0'		

### Corporate Headquarters

PSC Inc.  
959 Terry Street  
Eugene OR 97402-9150 USA  
Tel: 800 695 5700 or 541 683 5700  
Fax: 541 345 7140

### 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

European Headquarters  
Europe/Middle East/Africa  
PSC Bar Code Limited  
Axis 3, Rhodes Way  
Watford, England WD24 4TR  
Tel: 44 1923 809500  
Fax: 44 1923 809505

Belgium  
Tel: 32 2 414 74 09  
Fax: 32 2 410 11 63  
Sweden  
Tel: 46 4010 84 92  
Fax: 46 4010 84 91

France  
Tel: 33 1 64 86 71 00  
Fax: 33 1 64 46 72 44  
Turkey  
Tel: 90 212 236 91 15  
Fax: 90 212 236 91 16

Germany  
Tel: 49 6151 93580  
Fax: 49 6151 935858

Italy  
Tel: 39 0 39 629031  
Fax: 39 0 39 6859496

Spain  
Tel: 34 91 203 65 00  
Fax: 34 91 203 65 01

Asia Pacific Headquarters  
PSC Hong Kong  
12 Harcourt Road  
Bank of America Tower 8th Floor  
Hong Kong  
Tel: 852 2 584 6210  
Fax: 852 2 521 0291

Australian Headquarters  
PSC Asia Pacific Pty Ltd  
Unit 11  
277 Lane Cove Road  
North Ryde NSW 2113  
Tel: 61 2 9878 8999  
Fax: 61 2 9878 8688

Japanese Headquarters  
PSC Japan KK  
9F Gotanda Daiwa Bldg.  
7-13-5 Nishigotanda  
Shinagawa-Ku, Tokyo 141-0031  
Tel: 81 3 3491 6761  
Fax: 81 3 3491 6656

Latin American Headquarters  
PSC Latin America  
1110 Brickell Avenue  
Suite 505  
Miami FL 33131 USA  
Tel: 1 305 539-0111  
Fax: 1 305 539-0206