

# 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 25' / 8 m 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 12.7 oz. / 363 g PowerScan RF scanner to the 500 lb. / 227 kg pallet; not the pallet to the scanner.

Utilizing the latest in Radio Frequency (RF) technology, the PowerScan RF has a range of up to 150' / 46 m. 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 150' / 46 m 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) 6' / 2 m 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 2' / 5 cm or reflective labels at 35' / 11 m 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: 9.4 x 4.0 x 2.8" / 23.8 x 10.2 x 7.0 cm  
 Base Station: 10.5 x 3.5" x 2.5" /  
 26.7 x 8.9" x 6.4 cm – \*width is 4.2" / 10.7 cm  
 including mounting knobs

#### Weight

Scanner: 12.7 ozs. / 363 g  
 Base Station: 16 ozs. / 454 g

### 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: 1,200 foot candles / 12,600 Lux  
 Sunlight: 10,000 foot candles / 107,640 Lux

### 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: 14° to 122° F / -10° to 50° C  
 Storage: -4° to 140° F / -20° to 60° C

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

#### Shock (at 23°C)

Scanner: multiple 6' (2 m) drops to concrete;  
 Base Station: multiple 4' (1 m) 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		1.0" to 2.0" / 2.5 to 5.1 cm					
	4 mil		1.0" to 3.0" / 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	8" to 13" / 20 to 33 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	7" to 20" / 18 to 50 cm				
	15 mil	1.0" to 25.0" / 2.5 to 64.0 cm		7" to 32" / 18 to 80 cm	3.3' to 5.0' / 101 to 152 cm			
	20 mil	1.0" to 35.0" / 2.5 to 89.0 cm		5" to 4' / 13 to 122 cm	2.3' to 6.0' / 71 to 183 cm			
	40 mil			8" to 7' / 20 to 213 cm	2.3' to 12.0' / 71 to 366 cm			
	55 mil	6.0" to 60.0" / 15.0 to 152.0 cm		15" to 9' / 38 to 274 cm	3.3' to 15.0' / 101 to 457 cm			
Reflective Labels	40 mil			22" to 8.3' / 56 to 254 cm	3.3' to 15.0' / 101 to 457 cm			
	55 mil			30" to 12.0' / 76 to 366 cm				
	70 mil			3.3' to 15.0' / 101 to 457 cm	6.7 to 24.0' / 204 to 730 cm			
	100 mil			3.8' to 22.0' / 116 to 671 cm	6.7 to 36.0' / 204 to 1097 cm			

### PSC Inc.

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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					