

# PowerScan® SR & HD

# Data Sheet

Industrial Bar Code Scanners



### Mechanical

**Dimensions:** 6.9 x 11.2 x 18.3 cm (2.7" x 4.4" x 7.2")  
**Weight:** 289 g / 10.5 oz. (no cable)

### 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

**Scanner:** Withstands multiple drops from 18 m / 6' to concrete  
**Vibration:** Meets MIL-STD-810E  
**Water & Dust:** IEC529 rating IP54

### Optical

**Light source:** 650nm Visible Laser Diode (VLD)  
**Scan system:** Frictionless flexure mechanism  
**Rate:** 37 scans/sec. nominal  
**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

**Depth of Field:** See Depth of Field Table below

### Decoding Capability (autodiscriminates among)

- UPC A, E / EAN 8, 13 / JAN 8, 13
- Code 39
- Code 39 full ASCII
- Pharmacode 39
- EAN 128
- MSI/Plessey
- Code 128
- Standard 2 of 5
- BC412 (upon request)
- Code 93
- Interleaved 2 of 5
- Codabar

### Features:

- QuadraLogic® II decoding software for superior scanning performance
- Multi-interface modules provide ultimate flexible connectivity
- Integrated metal tether hook
- Programmable scan angle, beeper tone, and volume
- Field upgradable flash memory
- Flexible mounting and storage accessories available

### Depth of Field

Label Density	Standard (Decoded) Range	High Density (Decoded) Range
<b>Paper Labels</b>		
2.5 mil		3.2 to 51 cm / 1.25" to 2.0"
3 mil		2.5 to 5.7 cm / 1.0" to 2.25"
4 mil		2.5 to 7.6 cm / 1.0" to 3.0"
5 mil	7.6 to 15.2 cm / 3.0" to 6.0"	1.8 to 10.2 cm / 0.7" to 4.0"
7.5 mil	5.1 to 25.4 cm / 2.0" to 10.0"	1.3 to 11.4 cm / 0.5" to 4.5"
10 mil	2.5 to 40.6 cm / 1.0" to 16.0"	1.3 to 12.7 cm / 0.5" to 5.0"
15 mil	1.3 to 68.6 cm / 0.5" to 27.0"	
20 mil	1.3 to 91.4 cm / 0.5" to 36.0"	
40 mil	12.7 to 122.0 cm / 5.0" to 48.0"	
55 mil	15.2 to 152.0 cm / 6.0" to 60.0"	

Printing resolution, contrast and ambient light dependent.

### 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

### Host Communications

**Undecoded**  
**Multi-interface modules** (interchangeable, AutoSelect™ cable determines active interface): RS232C / Standard Keyboard Wedge / Wand Emulation USB / Universal Keyboard Wedge

### 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 (SR); CDRH Class IIIa (HD);  
 (CAUTION: Laser Light – Avoid direct eye exposure);  
 IEC 60825 Class 2 (SR & HD)

**Restriction of Hazardous Substances:** Complies to RoHS



### Accessories



A: Universal Mount Kit  
 B: Holster/Fork Lift Mount  
 C: Scan Stand  
 D: Take Up Reel



**Datalogic Scanning, Inc.**  
 Toll free: 1 800 695 5700  
 International: 1 541 683 5700  
 E-mail us at: scanning@datalogic.com  
[www.datalogic.com](http://www.datalogic.com)



Copyright © Datalogic Scanning, Inc. 1999-2007. All rights reserved. Protected to the fullest extent under U.S. and international laws. Copying or altering of this document is prohibited without express written consent from Datalogic Scanning, Inc. • Datalogic Scanning, Inc. of Eugene, Oregon, USA is ISO registered by NQA. • The Datalogic logo is a trademark of Datalogic S.p.A. • All brand and product names are trademarks of their respective owners. • Additional information concerning this product or other Datalogic products and services can be found at the Datalogic web site: [www.datalogic.com](http://www.datalogic.com). • Product specifications are subject to change without notice.