

PowerScan® SR & HD

Industrial Bar Code Scanners

Data Sheet



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

Mechanical

Dimensions: 2.7" x 4.4" x 7.2" (6.9 x 11.2 x 18.3 cm)

Weight: 10.5 oz. / 289 g (no cable)

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

Scanner: Withstands multiple drops from 6' / 1.8 m 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: 1,200 foot candles / 12,900 Lux

Sunlight: 8,000 foot candles / 86,100 Lux

Depth of Field: See Depth of Field Table below

Decoding Capability (autodiscriminates among)

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

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

BCI/CNS13438; AS/NZS 3548; VCCI-B

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



Accessories



A: Universal Mount Kit
B: Holster/Fork Lift Mount

C: Scan Stand
D: Take Up Reel

Depth of Field Chart (printing resolution, contrast and ambient light dependent)		
Label Density	Standard (Decoded) Range	High Density (Decoded) Range
Paper Labels		
2.5 mil		1.25" to 2.0" / 3.2 to 5.1 cm
3 mil		1.0" to 2.25" / 2.5 to 5.7 cm
4 mil		1.0" to 3.0" / 2.5 to 7.6 cm
5 mil	3.0" to 6.0" / 7.6 to 15.2 cm	0.7" to 4.0" / 1.8 to 10.2 cm
7.5 mil	2.0" to 10.0" / 5.1 to 25.4 cm	0.5" to 4.5" / 1.3 to 11.4 cm
10 mil	1.0" to 16.0" / 2.5 to 40.6 cm	0.5" to 5.0" / 1.3 to 12.7 cm
15 mil	0.5" to 27.0" / 1.3 to 68.6 cm	
20 mil	0.5" to 36.0" / 1.3 to 91.4 cm	
40 mil	5.0" to 48.0" / 12.7 to 122.0 cm	
55 mil	6.0" to 60.0" / 15.2 to 152.0 cm	



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