

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
Paper Labels		
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



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