

PowerScan® RF

Data Sheet

Industrial Bar Code Scanners



Features:

- Wireless operation up to 46 m / 150' away from the Base Station
- Operates up to 8 hours on a single charge
- Scanner and Base Station are IP54 rated 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
- Three year warranty

Mechanical

Dimensions

Scanner: 23.9 x 10.2 x 7.1 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"
 *Width is 10.7 cm / 4.2" including mounting knobs

Weight:

Powerscan: 360 g / 12.7 oz.
 Base Station: 454 g / 16 oz.

Environmental

Temperature Rating

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

Humidity: 5 to 95% NC

Shock:

Scanner: Withstands multiple drops from 1.8 m / 6' to concrete
 Base Station: Multiple 1.2 m / 4' drops to concrete

Vibration: Meets MIL-STD-810E

Optical

Light Source: Extra Bright 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/EAN/JAN
- Code 39
- Code 39 full ASCII
- Pharmacoce 39
- Code 93
- MSI/Plessey
- Code 128
- Standard 2 of 5
- EAN 128
- Interleaved 2 of 5
- Codabar

Electrical

Scanner Operating Current (nominal):

200mA @ 2.45 VDC (from NiMH Batteries)
 (6,000 scans per charge)

Base Station:

External Power Input Requires Datalogic Scanning

Approved Power Supply

Input Voltage (Power Off Terminal): 7.5 to 14 VDC

Input Current (nominal):

- 110mA (charger empty)
- 135mA (Battery in trickle charge)
- 280mA (Battery in fast charge)

Battery Charge Time

In Base Station: 4 hrs to 90%, 6 hrs to 100%
 In Optional Charger: 2 hrs to 90%, 4 hrs to 100%

Communications

Host:

- RS-232C Serial
- Wand Emulation
- Universal Keyboard Wedge (supports over 2,000 PCs/terminals)
- PC (XT, AT, PS2)
- USB Keyboard

Radio:

Multi-point Operation: up to 8 scanners to one base station

Channels: 10 each, software selectable

Range: 46 m / 150' line of sight

Frequency Range (varies by country):

- 902 MHz - 928 MHz
- 433.05 MHz - 434.79 MHz (RoHS version available)

Safety & Regulatory

Electrical: Complies to TÜV; UL; cUL

Emissions: Complies to FCC-A; EN 55022-B; BCII CNSI3438; AS/NZS 3548

Laser Classification: CDRH Class II; XLR model is Class IIIA.

⚠ (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, please contact your Datalogic Scanning representative.

Restriction of Hazardous Substances: Model with 433MHz radio complies to EU RoHS



Accessories

- Four Slot Charger
- Take Up Reel
- Scan Stand
- Holster/Fork Lift Mount



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Depth of Field

Label Density	Standard Range (Decoded, Code 39)	High Density (Decoded, Code 39)	Long Range (Decoded, Code 39)	Extra Long Range (Decoded, Code 39)
Paper Labels				
2.5 mil		3.2 to 51 cm / 12.5" to 20"		
3 mil		2.5 to 57 cm / 10" to 2.25"		
4 mil		2.5 to 76 cm / 10" to 30"		
5 mil	76 to 152 cm / 30" to 6.0"	18 to 10.2 cm / 0.7" to 4.0"		
7.5 mil	51 to 254 cm / 2.0" to 10.0"	1.3 to 11.4 cm / 0.5" to 4.5"	20 to 33 cm / 8" to 13"	
10 mil	2.5 to 40.6 cm / 1.0" to 16.0"	1.3 to 12.7 cm / 0.5" to 5.0"	18 to 51 cm / 7" to 20"	
15 mil	1.3 to 68.6 cm / 0.5" to 27.0"		18 to 81 cm / 7" to 32"	102 to 152 cm / 3.3' to 5.0'
20 mil	1.3 to 91.4 cm / 0.5" to 36.0"		15 to 122 cm / 6" to 4.0"	71 to 183 cm / 2.3' to 6.0'
40 mil	12.7 to 122.0 cm / 5.0" to 48.0"		23 to 213 cm / 9" to 7.0"	71 to 366 cm / 2.3' to 12.0'
55 mil	15.2 to 152.0 cm / 6.0" to 60.0"		38 to 274 cm / 15" to 9.0"	102 to 457 cm / 3.3' to 15.0'
Reflective Labels				
40 mil			56 to 254 cm / 20" to 8.4"	102 to 457 cm / 3.3' to 15.0'
70 mil			101 to 457 cm / 40" to 15.0"	203 to 762 cm / 6.7' to 25.0'
100 mil			116 to 671 cm / 40" to 22.0"	203 to 1097 cm / 6.7' to 36.0'

Printing resolution, contrast and ambient light dependent



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