

Technical Specifications

SVR2-01™

Surface Velocity Radar

Revision Date: 3-29-12



SONCELL NORTH AMERICA
A PUBLIC SAFETY COMPANY



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Decatur Electronics

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General	
Type	Stationary hand held Doppler radar
Accuracy	± 0.1 feet-per-second (± 0.3 meters-per-second)
Ambient Operating Temperature	-22°F to +158°F (-30°C to +70°C)
Angle Compensation	Vertical and Horizontal
Controls	Rubber keypad with Menu, Select, Power, Recall and Mode buttons. Trigger switch
Display	LCD with backlight
Display LCD	Displays the speed readings, menu options, and message icons. Display can be set to show speeds in 10ths or 100ths.
Features	DSP, 32 bit processing. Automatic vertical angle compensation (tilt sensor). Horizontal angle compensation adjustable from 0° to 60° in 5° increments.
Frame	Housing is a rugged ABS Polycarbonate Blend
Maximum Humidity	90% relative humidity @ +98.6°F (+37°C)
Dual Power	Six (6) AA NiMH batteries or detachable 12 VDC power cable with lighter plug
Speed Measurements	Feet-per-second (FPS) Meters-per-second (M/S)
Speed Range	0.3 FPS to 30 FPS 0.3 M/S to 9.1 M/S
Standard Warranty	2 years parts & labor
Water Resistance	Meets International Robustness Standard IEC 529:1989 and European Community Standard EN60529 Classification IP55

Mechanical	
Dimensions	10.25" (H) x 3" (W) x 7.25" (L) (26.305 cm x 7.62 cm x 18.415 cm)
Weight	2.1 lbs (0.952 kg) with batteries

Electrical - Power	
Battery Requirements	Six (6) AA Nickel-Metal-Hydride (NiMH) rechargeable batteries (User replaceable)
Battery Voltage Range	+6.1 VDC to +7.2 VDC
Battery Low Voltage Shutdown	+6.1 VDC
Detachable Power Cord	Plugs into the cigar lighter receptacle of the vehicle
Power Cord Voltage Range	+8.5 VDC to +16.5 VDC
Power Cord Low Voltage Shutdown	+ 8.5 VDC

Electrical - Power Consumption Parameters (All currents measured at 7.2 VDC with backlight on)	
Standby (antenna off)	0.105 amperes
Antenna ON (no targets)	0.170 amperes
Antenna ON (with targets)	0.172 amperes
Antenna OFF (segment check "888")	0.116 amperes
Antenna ON (segment check "888")	0.180 amperes





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Microwave	
FCC Identifier	HTRCR-1K
Frequency	24.150 GHz nominal (K-band)
Beam Width	12° nominal
Polarization	Circular
Power Density	$\leq 1 \text{ mW/cm}^2$
Power Output	7 mW nominal

