

Technical Specifications

Genesis-VP Directional™
Handheld Traffic Radar
Revision Date 3-30-09



Certified ISO 9001

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715 Bright Street
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General	
Type	Stationary hand held directional Doppler radar
Accuracy	± 1 unit of measure (±1 mph, ± 1 km/h)
Ambient Operating Temperature	-22°F to +158°F (-30°C to +70°C)
Audio	Six audio levels
Communications	RS232
Controls	Rubber keypad with Menu, Test, Power, Fast and Select buttons. Trigger switch
Display	LCD with backlight.
Display LCD	Displays target and locked target speeds along with all menu options and message icons
Features	DSP, 32 bit processing. User selectable direction modes (towards, away, or both directions), faster target selection
Finish	Black, scratch resistant powder coat paint on housing
Frame	Handle is a rugged ABS Polycarbonate Blend
Maximum Humidity	90% relative humidity @ +98.6° (+37°C)
Power	Two (2) Black & Decker® Versapak™ Nickel-Metal-Hydride (NiMH) batteries
Speed Measurements	mph or km/h
Speed Range	5 - 200 mph (8 -320 km/h)
Standard Warranty	Two (2) years parts & labor
Water Resistance	Meets International Robustness Standard IEC 529:1989 and European Community Standard EN60529 Classification IP55

Mechanical	
Dimensions	7.6" (H) x 3.25" (W) x 7" (L) (19.304 cm x 8.255 cm x 17.78 cm)
Weight	2.0 lbs (0.907 kg)

Electrical - Power	
Power Requirements	Two (2) Black & Decker Versapak® 3.6 VDC NiMH "Gold" series batteries
Voltage Range	+6.2 VDC to +8.0 VDC
Low Voltage Shutdown	+6.2 VDC

Electrical - Power Consumption Parameters (All currents measured at 7.2 VDC with backlight on and volume level set at 3)	
Standby (antenna off)	0.23 ampres
Antenna ON (no targets)	0.35 ampres
Antenna ON (with targets)	0.39 ampres
Antenna OFF (segment check "888")	0.24 ampres
Antenna ON (segment check "888")	0.34 ampres

Microwave	
IACP Type	III
FCC Identifier	HTRCR-1KD
Frequency	24.150 GHz nominal (K-band)
Beam Width	12° nominal
Polarization	Linear
Power Density	<=/= 1 mW/cm ²
Power Output	7 mW nominal