

Technical Specifications

Genesis Handheld Directional™
Handheld Traffic Radar
Revision Date 3-31-09



Certified ISO 9001

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715 Bright Street
 Decatur, IL 62522

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	Eight (8) 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
Frame	Housing is a rugged ABS Polycarbonate Blend
Maximum Humidity	90% relative humidity @ +98.6° (+37°C)
Power	+12 VDC nominal
Speed Measurements	mph or km/h
Speed Range	12 - 210 mph (20 -337 km/h)
Standard Warranty	2 years parts & labor
Water Resistance	Meets International Robustness Standard IEC 529:1989 and European Community Standard EN60529 Classification IP55

Mechanical	
Dimensions	8" (H) x 3" (W) x 7.25" (L) (20.32 cm x 7.62 cm x 18.415 cm)
Weight	1.8 lbs (0.816 kg)

Electrical - Power	
Power Requirements	+8.5 VDC to +16.5 VDC
Low Voltage Shutdown	8.5 VDC

Electrical - Power Consumption Parameters (All currents measured at 13.8 VDC with backlight on and volume level set at 4)	
Standby (antenna off)	0.105 ampres
Antenna ON (no targets)	0.170 ampres
Antenna ON (with "55" target displayed)	0.172 ampres
Antenna OFF (segment check "888")	0.116 ampres
Antenna ON (segment check "888")	0.180 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