Technical Specifications

System Interface 3 (SI-3)[™] Special Application Radar Revision Date 4-13-09



Certified ISO 9001

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General Specifications		
Туре	Special Application Radar	
Accuracy	100% accurate with a resolution of ± 0.10 unit of measure (± 0.10 mph, ± 0.10 km/h)	
Ambient Operating Tempurature	-22° F to +158° F (-30° C to +70° C)	
Available Frequencies	K-Band	
Communications	RS232, DB-9 serial connector	
Controls	Adjustable through software.	
Cosign - Horizontal	0 - 45° (Default = 0)	
Cosign - Vertical	0 - 45° (Default = 0)	
Data Format (Default)	<d> [SSS] <cr> D = Direction, S = Speed, cr = Carriage Return (Note: Various other protocols can be selected)</cr></d>	
Data Hold Time	100 to 9999 ms (Default is 2000 ms)	
Data Rate	1200, 2400, 9600, 19200, 38400, 57600 & 115200 baud rates. (Default is 9600 baud)	
Detection Range	3,000 ft maximum (0.914 km) (Default is 1,500 ft (0.46 km))	
Directionality	Towards, Away, or Both Directions (Default is Towards)	
Features	DSP, 32 bit processing.	
Finish	Black, scratch resistant powder coat finish	
Frame	Deep drawn aluminum housing	
Maximum Humidity	100% (Note: Unit is weather proof, not water proof)	
Ports	16 selectable communication ports. (Default is Com 1)	
Power	+12 VDC nominal	

General Specifications - continued	
Speed Measurements	mph, km/h, feet-per-second, & meters-per-second (Default is mph)
Speed Range	5 - 150 mph (8 - 241 km/h) (Min/Max user selectable)
Standard Warranty	One-year parts & labor
Target Acquistion Time	20 ms
Water Resistance	Meets International Robustness Standard IEC 529:1989 and European Community Standard EN60529 Classification IP67

Mechanical	
Length	5.6" (14.05 cm)
Width	3" (7.6 cm) diameter horn, 3.37" (8.55 cm) diameter with mounting base
Weight	1.14 lbs (0.52 kg)

ElectricalPower Requirements+10.8 VDC to +24 VDCLow Voltage Shutdown+10.8 VDCMinimum Current Draw0.120 ampereNominal Current Draw0.180 ampere @ 12 VDCSurge Current
Requirements1 ampere

Microwave	
Туре	K-band
FCC Identifier	HTRCR-1KD
Frequency	24.150 GHz nominal
Beam Width	12° Nominal
Polarization	Linear
Power Density	= 1 mW/cm<sup 2
Power Output	7 mW nominal