



Ground Surveillance Radar

General Specifications

Target Types	Moving, less than 0.1 m/s min Vehicles and personnel
Target Velocity	0.1 to 50 m/s
Frequency	Ka Band
Resolution	0.3 m range, 1° azimuth
Scan Rate	One revolution per second (60) rpm
Azimuth Beamwidth	1° (2-way)
Elevation Beamwidth	6° (2-way)
Elevation Control	Up: 2°; Down: 10° (fixed settings)
Input Power	20 to 32 VDC, 24 nominal
Radiated Power	Safe for human exposure
Communications	Ethernet, wireless, fiber
XML	Yes
False Alarm Rates	< 1 per 24 hours
Mask Zone(s)	Two selectable angular blank sectors Unlimited polygon detection zones
Network	8 per server; total unlimited
Dimensions	13" h x 17" diameter
Weight	24 lbs (11 kg)

STS-700

Operating Range	5 – 700 m
Detection Range	5 – 700 m, personnel walking 5 – 700 m, personnel running 5 – 500 m, personnel crawling (low crawl) 5 – 700 m, personnel crawling (hands & knees) 5 – 700 m, vehicles
Coverage Area	1.54 km ² (0.60 mi ²)

STS-1400

Operating Range	5 – 1400 m
Detection Range	5 – 1400 m, personnel walking 5 – 1400 m, personnel running 5 – 500 m, personnel crawling (low crawl) 5 – 1400 m, personnel crawling (hands & knees) 5 – 1400 m, vehicles
Coverage Area	6.16 km ² (2.41 mi ²)



STS-2800


Operating Range	5 – 2800 m
Detection Range	5 – 1900 m, personnel walking 5 – 1900 m, personnel running 5 – 500 m, personnel crawling (low crawl) 5 – 1900 m, personnel crawling (hands & knees) 5 – 2800 m, vehicles
Coverage Area	24.53 km ² (9.62 mi ²)

Environmental

Temperature	-30° to 60°C (operating) -40° to 70°C (storage) 50% +/-5 to 95% +/- 4, non-condensing
Humidity	(60° C max)
Altitude	Up to 15,000 ft (operating and storage)
Vibration	MIL-STD-810F
Shock	40 g peak for 20 ms, half sine (with vibration mount)
Wind	Up to 120 km/hr
Weather Sealing	Weather resistant (rain, snow, dust, sand, salt spray)
Power Consumption	45 watts
Ratings	FCC Class B, EN 301480, Parts 1 & 3 CE: EN 60215 EN 300019-1-4 (Class 4.1E with -40°C) EN 300019-1-5 (Class 5.2, Including mechanical class 5M3)
Environmental Ratings	NEMA 4
Data Bandwidth	Maximum: 1 Mbits without PPI Maximum: 7 MBITS with PPI
Protocol	ICD 0100

Honeywell Automation and Control Systems

Critical Infrastructure Protection
1980 North Atlantic Avenue, Suite 1030
Cocoa Beach, FL 32931
321-784-4290
www.honeywell.com

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