

BEAGLE Portable Ground Surveillance Radar with Integrated Acoustical Target Identification



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VENDOR DESCRIPTION

The BEAGLE is a man-portable ground surveillance radar (GSR) that is based on the FMCW principle, resulting in the system's remarkable detection range and accuracy with minimal possibility of jamming. Built-in acoustical target identification technology allows the BEAGLE to identify specific target types (i.e., car, tank, helicopter, personnel) through sound recognition software. The BEAGLE is extremely cost competitive. The weight of the entire BEAGLE system is competitive, if not lighter, than all other GSR systems. The BEAGLE has a very low probability of intercept (LPI) and provides reliable measuring results, even under difficult circumstances (fog, rain, snow, etc).

The BEAGLE is a sensor system, more than a portable radar. Due to its built-in GPS and NFD, as well as its vector-map handling capability, it is ideal for border surveillance, battlefield surveillance, airbase security, civilian installation security and combat operations. The BEAGLE is easy to operate and set up (5 minutes), with minimal need for specially trained operators. BEAGLE's digital signal processing enables the elimination of non-moving targets and provides the ability to track multiple targets simultaneously.



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Business Category: Small Business

GBR

System Characteristics

Technology	FMCW LPI
Operating Frequency	Agile, 9.8 – 10.4 GHz
Weight (with batteries)	39.4 kg
Transmit Power	1W
Temperature	Operating -30°C to +60°C Storage -40°C to +60°C
Antenna	28dB, Patch Horizontal Polarization
Processing	Pulse Compression STC, FFT, CFAR, Plot Ext., Track Ext.
Data/Control Interface	RS-232
Scan Rate	7-14°/sec
Coverage	Horizontal Azimuth Sector Scan 0 to 360°
Target Classification	Automatic and Audio
Input Power	28 VDC (18-36 VDC), 90 watts
Continuous Operations on Single Set of Batteries	10-12 hours, rechargeable batteries

Performance Characteristics

Detection Range	Personnel 8 km Vehicles 24 km
Accuracy	Range ±5 m Azimuth ±10 mils
Max. Remote Distance	115 m
Display Latest Target Info for Most Recent Target Set	Yes
Target Capacity	10+ plots/sec 12+ tracks/scan 1000+ targets may be stored
Minimum Detectable Radial Velocity	1.7 km/hr
Operational Availability (Ao)	> 99%
MTBF	> 7000 hrs
MTTR	< 1 hr
Maintainability – 2 level BIT to LRM	BIT
Options	Included
AC Power Adapter 24 VDC Power Adapter Ethernet Remote Interface Wireless Remote Operation	Integrated Acoustical Target Identification GPS & North Finding Device Rechargeable Batteries Battery Charger