

Foxtrack™

Portable Ground Surveillance Radar



Foxtrack™ radar is operational and used by military, border patrol, and Homeland Security (HLS) agencies.

Foxtrack™ monitors a designated area of interest, detects & tracks any moving target.

Foxtrack™ offers unique properties that, combined, provide armed forces, special operations, and security personnel with integrated, real-time tactical surveillance, intelligence gathering and target detection, classification & identification of human and/or vehicles operating in the area of interest.

Unique software enables integration of single units within complex multi-sensor systems, thus maximizing applicability in the field.

Main Applications

- Borders protection systems
- Protection of sensitive sites
- Battlefield surveillance

Portable Ground Surveillance Radar

Main Features

- Portable and flexible: backpack-carried, vehicle-mounted, or fixed-post installations
- Fast deployment
- Local or remote operation (100m)
- Integrated Map Handling, Freely Configurable Alarm and Dumb Zones Icon-based, user-friendly functions display
- Integrated GPS and North Finding Device
- Mission Debriefing & Operator training: Fully Logged Operation and Replay
- Versatile: operates as single unit, in small unit clusters, or as part of a comprehensive multi-sensor system Interfaces or reports to C⁴I various systems
- Interoperable with Day Night EO cameras
- LPI – Low Probability of Intercept and able to cope with hostile jamming attempts
- Rugged, lightweight and compact
- Low lifecycle costs

Technical Specifications

Operation principle	FMCW
Frequency Band	X Band
Typical Detection Range	Pedestrians: 6 km Armored soldiers: 8 km Vehicles: 15 km Large vehicles: 24 km (RCS 50 m2)
Scanning modes	Sector scan 6° - 350° or continuous rotation (n x 360°)
Scan Rate	7°/Sec, 14°/sec, Spot Window
Accuracy	Range: ± 3m (at 3 km range) Azimuth: ≤ 0.3°
Target Capacity	>50 Tracks + 1000 displayed plots
Target Classification	Automatic and Audio
Data/Control Interface	RS-485, WIFI, Ethernet
Transmitted Power	20mW, 200mW, 2000mW Low radiated power for human safety
Radar Power Supply	28V DC (22-33V DC), max. 50 watts, battery or vehicle operated Continuous operation on single set of batteries 10-12 h
Temperature Ranges	Operation: -32°C to +50°C Storage: -40°C to +60°C
Environmental Qualification	By MIL-STD 810F
System Weight	30 kg
Radar Unit Size	69 x 49 x 13 cm
MTBF	>10,000 hrs

