

SR HAWK™ RADAR – RUGGEDIZED CONFIGURATION

Designed for **vehicle mounting and ultra-rugged reliability to bring at-the-halt long-range radar surveillance capabilities to mounted teams**

BELOW: The SR Hawk radar's ruggedized configuration is ideal for rugged operation on track and wheeled vehicles.



AN ULTRA-RUGGED VEHICLE MOUNTING OPTION PROVIDES SUPERIOR SR HAWK RADAR PERFORMANCE AND RELIABILITY FOR MOUNTED OPERATIONS

The SR Hawk™ ground surveillance radar's most rugged, vehicle mountable configuration is the SR Hawk Radar – Ruggedized Configuration.

Built to withstand shock and vibration forces from track and wheeled vehicles, the ruggedized configuration includes a heavy-duty positioner to ensure accuracy, stability and reliability on vehicle platforms. The system is designed to operate at-the-halt, providing increased mobility and situational awareness on the battlefield.

The SR Hawk radar is designed to operate in the harshest environments, from desert heat and temperature fluctuations, to saltwater maritime and other extreme weather environments.

The radar's flexibility and rugged reliability combine to provide a powerful force protection and battlefield surveillance tool.

In addition to vehicle mounting, the ruggedized configuration can also be tower mounted. The system's rugged positioner offers increased reliability in heavy wind and extreme environments.

In every configuration, the SR Hawk radar achieves superior accuracy in range, azimuth and target acquisition allowing for



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precise image cueing, and improved classification and identification of targets. Automation of electro-optic sensor cueing, audible alerts, multi-target tracking, and advanced anti-clutter techniques are just a few of the features that allow system operators to focus on what's really important – the threat.

APPLICATIONS

- Ground surveillance
- Border surveillance
- Port and harbor surveillance
- Battlefield surveillance
- Artillery spotting/fall of shot
- Low-altitude air surveillance

BENEFITS

- Operational in severe weather conditions (extreme heat, wind, rain and fog)
- Extremely rugged positioner ensures accuracy and durability when mounted on track and wheeled vehicles, or towers in extreme conditions
- Intuitive, user-friendly operation and automated tasks make the system easy to deploy and operate

BELOW: The SR Hawk radar's ruggedized configuration can be tower or vehicle mounted for long-term and mobile surveillance missions.



RUGGEDIZED CONFIGURATION SPECIFICATIONS

- System Weight: 121 lbs (55 kg)
- Transmit type: Pulse-Doppler
- Operating frequency: 16.21-16.50 GHz (Ku band)
- Detection range:
 - 12 km for single person (0.5 m²)
 - 21 km for small vehicles (10 m²)
 - 32 km for large vehicles (30 m²)
 - 48 km max instrumented range
- Minimum detection range: 50 m
- Minimum detection velocity: 0.25 m/s
- Elevation range: -33° to +22°
- Range/azimuth accuracy: 10 m / 0.2°
- Operating temperature: -40° C to +65° C
- Environment: Qualified to MIL-STD 810G
- Meets shock and vibration ratings for track and wheeled vehicles
- Reliability (mean time between failure): 22,000+ h

BELOW: The SR Hawk radar's rugged positioner ensures accuracy in high shock and vibration mounting environments.



FEATURES

- Ultra-rugged positioner for mounting on track and wheeled vehicles
- Automated sensitivity settings for weather and clutter management
- Simultaneous short- and long-range coverage
- Tracks up to 500 targets simultaneously
- Automated priority target track mode
- Performs ground, coastal and low flying aircraft surveillance missions
- Integrates with C2 and cues imaging sensors with high accuracy
- Networkable
- Built-in test for automatic fault isolation
- Automatic data recording with playback
- Frequency agility
- Web interface for command and control



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