

# SR HAWK™ RADAR – EXPEDITIONARY CONFIGURATION

Designed for **extreme portability and reliability to deliver powerful, long-range surveillance** to remote and inaccessible areas

BELOW: The SR Hawk radar's expeditionary configuration can be broken down into three custom designed rugged backpacks for extreme transportability.



**THE EXPEDITIONARY CONFIGURATION OF THE SR HAWK RADAR OFFERS PORTABILITY IN A LIGHTWEIGHT, BACKPACKABLE PACKAGE WHILE MAINTAINING MAXIMUM PERFORMANCE AND RELIABILITY**

The SR Hawk™ ground surveillance radar's lightest, most transportable and flexible format is the SR Hawk Radar – Expeditionary Configuration.

In this configuration, the system is transported in three backpacks, providing the flexibility to cover terrain on foot and bring advanced ground surveillance capabilities to previously inaccessible areas of operation. The system is designed to be self-sufficient and requires very little power, which can be provided by a group of backpackable solar arrays and portable battery system.

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 conditions. The radar's flexibility and extreme

portability combine to provide a powerful force protection and area surveillance tool.

The expeditionary configuration is especially adept at meeting the force protection and battlefield surveillance needs of forward observers. The radar can be emplaced in a discrete location to monitor a large battlefield area or harsh border terrain.

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





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allowing for 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)
- Backpackable and can be set up rapidly by one person in less than 10 minutes
- Intuitive, user-friendly operation and automated tasks make the system easy to deploy and operate

### EXPEDITIONARY CONFIGURATION SPECIFICATIONS

- Total Pack Weight: < 132 lbs
  - 3 packs, each weighing between 40-46 lbs/pack
- Input power: < 100W (battery, vehicle, solar or AC power)
- Transmit type: Pulse-Doppler
- Operating frequency: 16.21-16.50 GHz (Ku band)
- Detection range:
  - 12 km for single person (0.5 m<sup>2</sup>)
  - 21 km for small vehicles (10 m<sup>2</sup>)
  - 32 km for large vehicles (30 m<sup>2</sup>)
  - 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
- Reliability (mean time between failure): 22,000+ h

BELOW: The SR Hawk radar can be powered by a backpackable battery and solar panel array, enabling operation in isolated, remote and extreme environments.



### FEATURES

- Transportable in three custom designed, rugged backpacks
- Backpack storage for up to ten batteries for long duration operation
- Quick connect assembly for rapid connection/disconnection of radar panel to positioner
- 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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