

# SR HAWK™ GROUND SURVEILLANCE RADAR

A long-range surveillance radar that delivers a superior combination of **performance and value**

SRC has more than 65 years of proven experience developing radars that are trusted around the world for critical air surveillance, border surveillance, counter-UAS, force protection and ground surveillance missions. The *SR Hawk™* radar is the most current offering of SRC's proven line of ground surveillance radars advanced through decades of radar innovation.

The *SR Hawk* radar provides wide area situational awareness in a versatile, low power package that is easy to setup and use. The radar's high reliability results in a low cost of ownership and the system's maintenance is simplified with a modular design for field servicing.

BELOW: *SR Hawk* radar expeditionary configuration



BELOW: *SR Hawk* radar ruggedized configuration

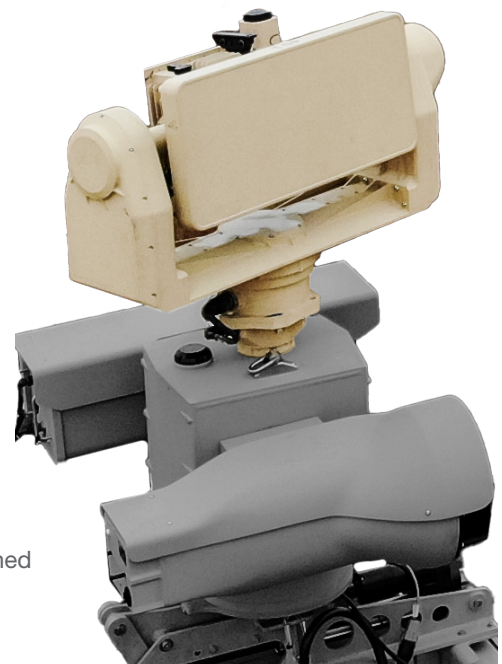


SRC continuously improves the *SR Hawk* radar with hardware and software updates to enhance performance and usability. Future upgrades include integration with a wide-beam antenna, micro-Doppler processing, machine learning targeting algorithms and software defined waveform generation to adapt to evolving missions.

Superior accuracy for target acquisition allows 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.

The *SR Hawk* radar is reliable in all weather conditions and the most extreme temperatures. Engineered and designed with the end user in mind, the radar is extremely easy to setup and use, yet rugged enough to withstand repeated emplacements in any environment. Hundreds of *SR Hawk* radars are deployed worldwide – a testament to the *SR Hawk* system's reputation as a long-range GSR providing an unrivaled combination of performance and value. The *SR Hawk* radar is designed and manufactured in the U.S.A.

**THE SR HAWK RADAR DETECTS PERSONNEL, VEHICLES AND AIRCRAFT, AND IS IDEAL FOR THE SURVEILLANCE OF BORDERS, PORTS, HARBORS AND REMOTE AREAS**



# SR HAWK™ GROUND SURVEILLANCE RADAR

## APPLICATIONS

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

## BENEFITS

- Operational in the most severe weather conditions (extreme heat, wind, rain and fog)
- Highly transportable and can be installed/set up rapidly by one person and in less than 10 minutes
- Intuitive, user-friendly operation and automated tasks make deployment simple
- Multiple configurations help meet the requirements of any mission
- Modular software architecture enables simple upgrades to add performance features

BELOW AND RIGHT: The SR Hawk radar can operate autonomously and withstand the most severe weather conditions, including high heat, low humidity, salt-water and marine environments.



## GENERAL SPECIFICATIONS

- Weight: < 45 lbs (21 kg)
- Input power: < 100W (battery, vehicle, solar or AC power)
- Transmit type: Pulse-Doppler
- Operating frequency: 16.21-16.50 GHz (Ku band)
- Interface: Ethernet / XML (SEIWG ICD-0101B, cursor on target)
- Detection ranges:
  - 12 km for a single person (0.5 m<sup>2</sup>)
  - 15 km for rubber raft (1 m<sup>2</sup>)
  - 25 km for sm. vehicle/vessel (10 m<sup>2</sup>)
  - 30 km for avg. vehicle/vessel (20 m<sup>2</sup>)
  - 34 km for lg. vehicle/vessel (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°
- Elevation beamwidth: 8°
- Range / azimuth accuracy: 10 m / 0.2°
- Azimuth coverage: Definable sector or full 360°
- Operating temperature: -40° C to +65° C
- Environment: Qualified to MIL-STD 810G
- Electromagnetic interference: Qualified to MIL-STD-461F, FCC Part 15 certified
- Reliability (mean time between failure): 22,000+ h
- Detailed Configuration Specifications
  - [Expeditionary Configuration](#)
  - [Ruggedized Configuration](#)



## FEATURES

- Rapid update rate
- Low false alarm rate
- Automated sensitivity settings for weather and clutter management
- Simultaneous short- and long-range coverage
- 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 clutter filtering compensates for mast or tower sway
- Tracks up to 500 targets simultaneously
- Automatic data recording with playback
- Frequency agility
- Audio alert capability
- Web interface for command and control
- Multi-language user interface



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