

LIGHTWEIGHT ELECTRONIC
SURVEILLANCE PACK

RFEYE RANGER

For RF sensing & direction finding

 **CRFS**
a Motorola Solutions Company

EXTRAORDINARY
RF TECHNOLOGY



Operator-portable, field-ready RF sensing and geolocation system for dismounted ESM.

RFeye RANGER is a lightweight, compact, modular solution that leverages CRFS' highly sensitive, combat-proven receiver and array technology.

This lightweight, compact form factor (less than 15 lbs) enables single operator-use. It permits secure, adaptable, and interoperable RF-enabled capabilities, addressing existing and evolving military and non-military operations. It can be deployed independently for signal detection and direction finding, or networked with other RFeye RANGERS and RFeye sensors to enable geolocation.

RFeye RANGER acts as a force-multiplier, enabling distributed, dismounted sensing. It enables forward-deployed sensing, operational flexibility, and fills coverage gaps between fixed and mobile assets.

- Combat-proven RFeye Node 100-18 (9kHz–18GHz), TRL-9
- Compact 1GHz–18GHz DF antenna head
- 30MHz–18GHz omnidirectional antennas
- Ruggedized and optimized for operator-portable deployment
- Real-time SIGINT processing and analysis
- Intuitive interface on tablet or TAK
- Self-powered through NATO-standard batteries or external power (6+ hour life)
- Detects and geolocates complex emitters; supports geolocation when networked
- I/Q recording for analysis
- Interoperable with all other RFeye sensors
- Network capable and agnostic to bearer



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DETECT. RECOGNISE. IDENTIFY. LOCATE.

RFeye RANGER benefits

- Lightweight Electronic Surveillance Pack (LESP)
- Detect, identify, and direction find RF signals to support rapid cueing
- Dismount-portable solution (lightweight, low SWaP design, <6.5 kg)
- Network multiple sensors to enable geolocation across wide areas
- Support faster decision-making through real-time processing and visualization
- Detect and geolocate complex emitters when networked
- Operate across air-to-ground and ground-to-ground missions
- Record and analyze data for post-mission analysis and EW database development
- Scale capability through interoperability with RFeye sensors
- Integrate into existing C2 systems through open interfaces and APIs
- Interoperate with uncrewed systems to increase the operational coverage area
- Supports single operator freedom of movement and networked operational flexibility
- Field a complete, ready-to-deploy capability

Discuss your operational requirements with our team



Talk to us

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CRFS is an RF technology specialist for defense, national security agencies and systems integration partners. We provide advanced capabilities for real-time spectrum monitoring, situational awareness and electronic warfare support to help our customers understand and exploit the electromagnetic environment.



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