

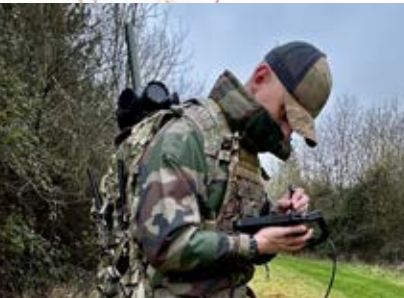
LIGHTWEIGHT ELECTRONIC  
SURVEILLANCE PACK

# RFEYE RANGER

For RF sensing & direction finding

SILVUS  
TECHNOLOGIES  
a Motorola Solutions Company

RFeye®



## Operator-portable, field-ready RF sensing and geolocation system for dismounted Electronic Support Measures (ESM).

Weighing under 15 lbs, the compact RFeye RANGER is a single-operator device that acts as a force-multiplier for distributed and dismounted EMSO sensing. It delivers secure, adaptable radio frequency (RF) capabilities for military and civilian operations, providing the operational flexibility to forward-deploy sensors and fill critical coverage gaps between fixed and mobile assets. Operators can deploy the system independently for standalone signal detection and direction finding, or seamlessly network it with other RFeye RANGERS and sensors to enable full geolocation.

- Combat-proven RFeye Node 100-18 (9kHz-18GHz)
- Compact 1GHz-18GHz DF antenna head
- 30MHz-18GHz omnidirectional antennas
- Ruggedized and optimized for operator-portable deployment
- Intuitive interface on tablet or TAK
- Real-time SIGINT processing and analysis
- 6+ hour battery life
- Detects and geolocates complex emitters
- I/Q recording for analysis
- Network capable and agnostic to bearer





## RFEYE RANGER BENEFITS

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- Lightweight Electronic Surveillance Pack (LESP)
- Detect, identify, and direction find RF signals to support rapid cueing (9kHz–18GHz)
- Dismount-portable solution (lightweight)
- 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
- 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

## EXAMPLE SYSTEM COMPONENTS

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*Backhaul option dependent on operating environment*



Compact DF Head (to18GHz)



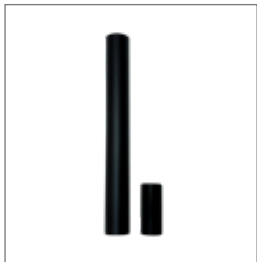
RFeye Node 100-18 (Dismounted)



Battery and case x 2



RFeye Site software & APIs



Wideband monitoring antennas: 30MHz-1GHz  
1GHz-18GHz



Carriage (user defined)



Tripod



Ruggedized tablet



Power Distribution Box and cables