



## Advantages

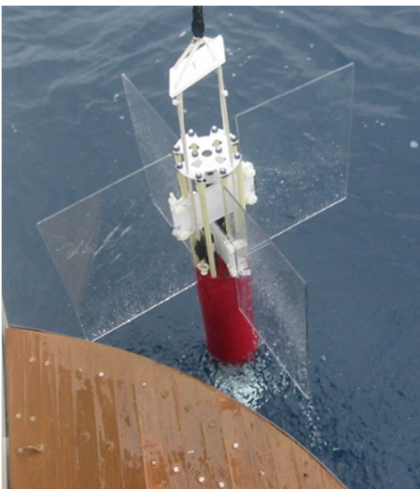
- High sensitivity
- Excellent frequency response
- Compact design
- Field tested
- User friendly

## Applications

- Ground surveillance
- Marine sensing
- Airborne reconnaissance
- Unique target ID
- Projectile detection
- Geophysical exploration

## Currently

- Airborne RF geolocation
- EM oceanfloor receivers
- Sensitive marine electrodes
- Bullet detection
- ELF/VLF/LF sensors
- Tunnel detection



## Robust EM Sensing Systems

QUASAR Federal Systems (QFS) has been a world leader in electromagnetic sensing since its founding in 1998. QFS has a long history of designing and building custom EM sensing systems to customer specifications. QFS applications range from ISR to geosciences, security, and atmospheric science. We have customers in both government agencies and the commercial realm. Ask QFS how we can help solve your problem and come see our work at the URL below!

## QFS Capabilities

- High sensitivity compact magnetic induction sensors
- Marine electric and magnetic field electrodes, coils, and 3-axis sensors
- High sensitivity E-field sensors
- First 3-axis & first airborne E-field sensors
- Integrated E+B Sensing Systems
- Single-station RF geolocation
- Single-station lightning detection



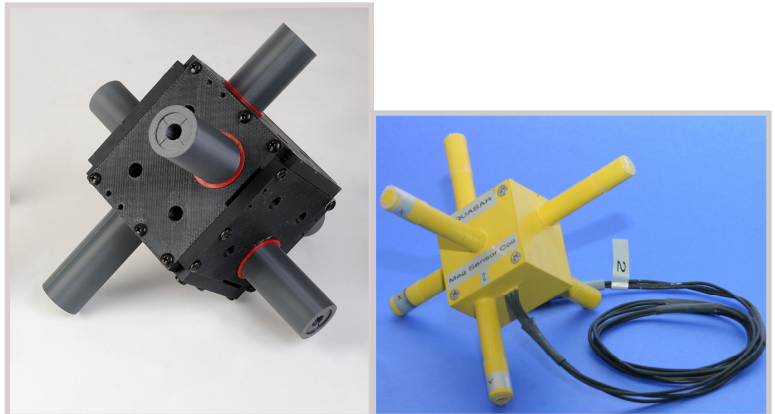
## Magnetic Field Sensing Systems

Fills critical sensitivity gap from  
0.025 pT/√Hz — 0.5 pT/√Hz  
Range of sizes from 15 cm to 45 cm  
Compatible with other systems  
Passive, low power  
Performance and field deployability

## Electric Field Sensing Systems

QFS has pioneered the development of a new electric field sensing technology.

- 100 times more sensitive than SoA
- Passive, low power
- Compact, modular format
- Potential for very low cost
- Ground, airborne and marine modalities



## USN Tri-axial Fluxgate Magnetometer

Funded by USN SBIR Program  
Low power, marine and airborne modalities  
Onboard motion noise damping  
Potential for very low cost  
Complete package weighs < 1.5 lbs.  
< 30pT/√Hz @ 1 Hz

