



## GROUNDSHARK® is a handheld dual-sensor detector that uses ground penetrating radar (GPR) and electromagnetic induction (EMI) to detect buried hazards and anomalies.

With GROUNDSHARK®, the detection, location and visualization of buried metallic and non-metallic objects is now possible in a commercial, handheld form. Chemring Sensors and Electronic Systems' (CSES) ground penetrating radar (GPR) is integrated with an electromagnetic induction-based metal detector (MD), manufactured by Minelab Australia. GROUNDSHARK®, collects the GPR and MD data and uses CSES' proprietary Automatic Target Recognition (ATR) algorithms to provide subsurface visualization in real-time and alert the operator of potential threats with audio, tactile, and visual feedback. Alternatively, the GPR and MD radar technologies can be operated independently as dictated by mission requirements.

GROUNDSHARK® can perform in a variety of terrains, including concrete and asphalt, and is able to discriminate between metallic and low-metallic objects at full sensitivity, regardless of the mineralized content of the soil. GROUNDSHARK® has been strategically designed to provide a ruggedized, yet lightweight, modular system that allows for field-replaceable components, making it highly user-friendly and cost-effective.

### Benefits

- Breakthrough Pd/FAR performance
- Performs on changing and uneven terrain without need to recalibrate
- Requires minimal training time; easy to use
- Intuitive Graphical User Interface
- Recordable missions for after-action analysis
- Ruggedized for harsh operational environments
- Fast Start-Up Time:  
30 seconds for power-on  
30 seconds for calibration
- Lightweight: ~3.5 kg
- Utilizes rechargeable Lithium-Ion or commercially available alkaline batteries
- Designed to meet requirements of MIL-STD-810F/G for ruggedized military equipment
- Meets requirements of IP67
- Survives a 1m drop
- Operating temperature range: -20C to +50C
- Maintains performance across differing terrain/soil without need of recalibration