

A18-M

Mid size Autonomous Underwater Vehicle for mine and UXO detection, classification and localization



- AUV with interferometric synthetic aperture sonar (ISAS)
- Large area coverage
- Rapid environment assessment
- Automatic target recognition (ATR)
- Easy launch and recovery in bad sea state condition
- STANAG 1364 compliant system

CHARACTERISTICS

- Body diameter 18 inches (46.5 cm)
- Length: from 4.5 m
- Weight: from 442 kg
- Energy section: 10.9 kWh
- Navigation: Inertial Navigation System (INS), Doppler Velocity Log (DVL), Global Positioning System (GPS)
- Communication: Broadband Radio or WiFi, Ethernet, Iridium, Acoustic
- Safety: Emergency pinger, Strobe light, Fault and Leak detection, Obstacle Avoidance System, Iridium beacon, Local Remote Control for Surface Recovery
- STANAG 1364 compliance
- (Submitted to French export regulations)
- Payload: Synthetic Aperture Sonar (SAS), CTD
- Air transportable according to UN38.3 standard

OPERATIONAL PERFORMANCES

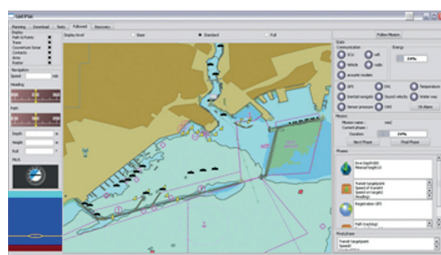
- Endurance: up to 24 hours at 3 knots
- Max speed: up to 6 knots
- Nominal speed: 3-5 knots
- Operational depth: 3-300 m

PAYLOAD PERFORMANCES

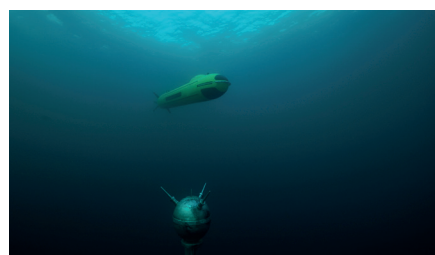
- Area Coverage Rate (ACR): 1.9 km² / h at 4 knots
- Frequency: 300 kHz
- Max range: 180 m
- Max swath: 360 m
- Resolution: 3 cm x 3 cm

OPTIONS

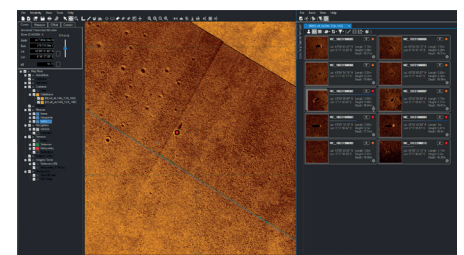
- Multibeam Echosounder (MBES) or Volume Search Sonar (VSS)
- Still or Video Camera
- Turbidity sensor
- Additional sensors on request
- USBL or LBL external tracking system
- Surface ship integration
- Containerized C3
- LARS for small, large ship or containerized solution
- Black paint Scheme



User friendly mission management system



A18-M in its MBES and LARS configuration



Post Processing Results