BODAMM system detects and locates UXO (Unexploded Object) and submarine cables partially or fully buried.

BODAMM consists of three independent elements:

- An AUV equipped with Klein3500 dual frequency side scan sonar (450-900kHz).
- A sub bottom sounding system composed of low frequency acoustic transmitter and a 16 elements receiving antenna, controled by the Rtsys electronic card SDA416.
- A gradiometer magnetometer for the detection of buried metallic elements.

Acoustics & magnetics data flow is recorded and georeferenced simultaneously. Data is post-acquisition processed and provides an accurate image of the sedimentary layers and anomalies (UXO, cables, ...).

Advantages

- Combination of acoustic and magnetic sensors for detection
- Fusion of information extracted from magnetic and acoustic sensors
- Each element of the system is independent

Applications

- UXO detection
- Cable detection
- Metal object detection
- Sea bed analysis

Characteristics

- Lenght: AUV-2,20 m
  Antenna-10 m
- Weight(air): 45 kg + 15 kg
- Depth: 300 m
- Speed: 2 à 10 Knots

Payloads & options

- Side scan sonar
- Gradiometer
- Sedimentary Sounder

RTsys - Underwater Acoustics & Drones
+33(0)297 898 580 - sales@rtsys.fr
Module acoustic reception antenna
- 16 hydrophones, Sh=-204.5 dB re 1V/μPa
- Distance transducer/1st Hydro: 1m
- Connections: Burton 39 points, Subconn 8 points on bottom
- Length 10m, Outer diameter 42mm
- Neutral buoyancy

Compact and easy-to-deploy embedded system
**BODAMM** was designed to be easily deployed from a small boat. Its weight and size make it easy to maneuver and recover.

Precision and reliability of the prospected area
- Accuracy of scanned track
- The AUV’s ability to carry out a boring task (reduced track spacing over a wide area).

AR2E box (Amplifier / Recorder / Emission / Energy)
- SDA416 card 16-channels acoustic acquisition, with an simultaneous acoustic and magnetic reception
- Neutral buoyancy

Autonomy
**BODAMM** can operate a full day and up to 8 hours depending on sensors and speed level.

Polyvalent
**BODAMM** is a modular system composed of independent elements:
- AUV with side scan sonar
- Acoustic and magnetic detection system towable by a ship

Contact
- [www.rtsys.eu](http://www.rtsys.eu)
- [sales@rtsys.fr](mailto:sales@rtsys.fr)
- +33 (0)297 898 580

Rtsys activities
- Underwater Drones
- Sonar Solutions
- Underwater acoustics