

# MIRS



## Multi-influence Range System

When operating in the modern naval environment, vessels are subjected to numerous detection threats due to their various influence signatures which can be detected by means of naval mines or other devices.

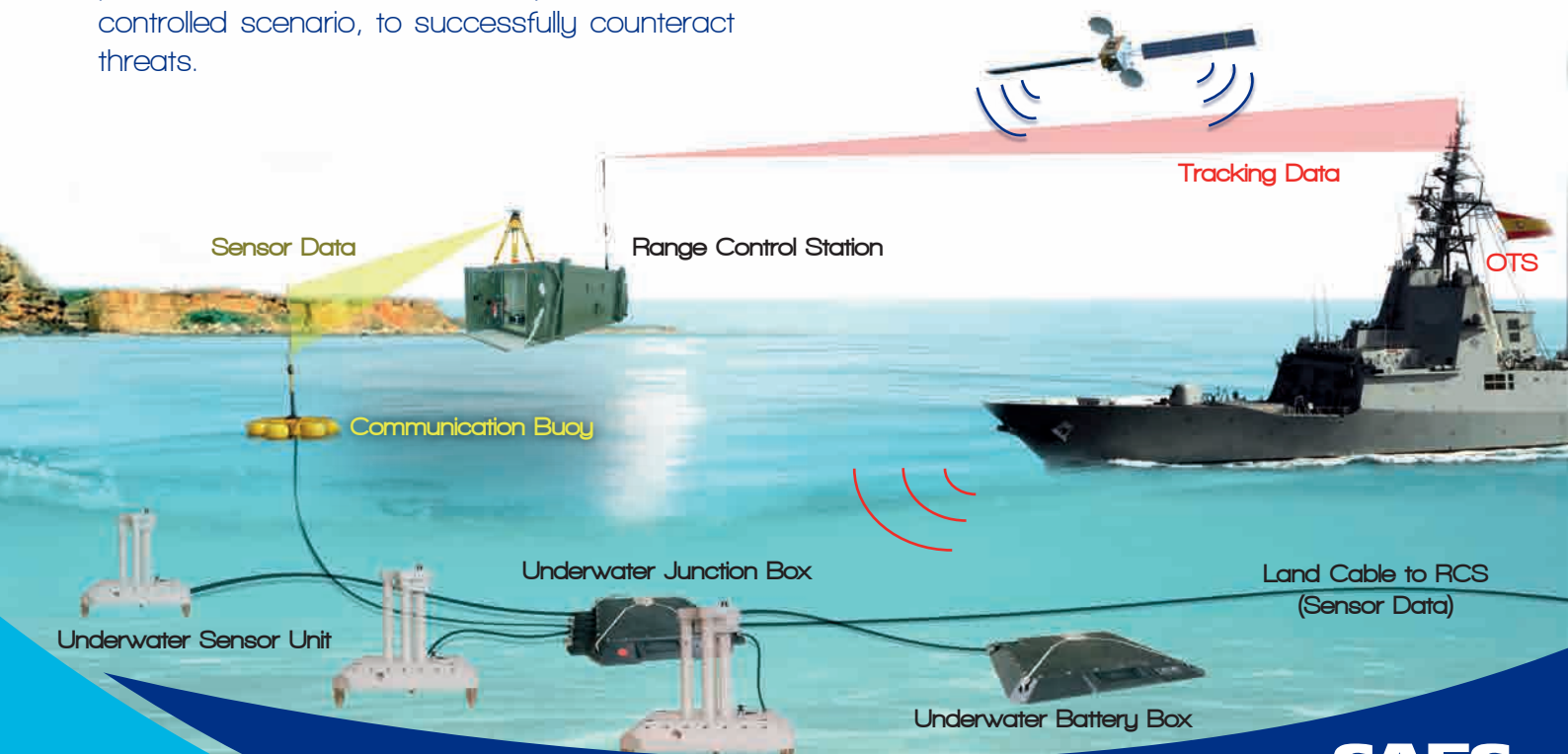
The above mentioned influences inherent to ships, mainly magnetic, acoustic, electric, seismic and pressure, must be measured and analyzed to obtain the corresponding signatures and to evaluate the potential threat.

MIRS is a Multi-influence range system for surface ships and submarines at the forefront of the market, able to get all the signatures of the ship in different geographical locations due to its portability.

The **SAES Multi Influence Range System (MIRS)** for surface vessels and submarines provides real influence measures (magnetic, electric, pressure, acoustic, and seismic) in a real and controlled scenario, to successfully counteract threats.



Being MIRS among the **most advanced systems in the world**, compared to fixed stations, it provides a decisive advantage, due to its portability, low weight, power consumption and high performance which lets to obtain all signatures of the ship in different geographical locations.



MIRS is also a tool **for testing and calibration** of:

- Systems developed to reduce those influences as degaussing systems, ASG, etc.
- MCM Systems as mine sweeping gear systems.

Two **installations modes**: it may be located at a fixed station or, using the portable capability, it may be located in the desired location, since it is easily deployable by two people from a rigid-hulled inflatable boat (RHIB).

### Main Features

- Magnetic, electric, acoustic, seismic and pressure influences measurements of surface ships, submarines and influence sweeps, under controlled environment.
- Database. Storing, analysis and management of signatures.
- Real time monitoring, display and recording of the measured influences.
- Ability of setting and calibration of the on-board systems to minimize magnetic and electric influences, also DG coil effect and setting capabilities.
- Designed using COTS equipment to guarantee maximum reliability at minimum cost.
- Portable and modular design. Scalable system.
- Wired or RF transmission of measured data to the Control & Analysis Centre.
- Tracking and data recording of the vessel under test.
- Processing of static and alternating signal.
- Self test and calibration of units.

«Are you safe from new  
Multi-influence Naval Mines?»

MIRS can help you.»



## SWAMEG

### Sea Water Magneto-Electric Generator

SWAMEG generates a magnetic and electric signature with known levels. It has been specifically designed for magnetic-electric calibration of range systems, it is also a useful tool for maintenance.