



Press release

THE ITALIAN COAST GUARD RELIES TO SEAGUARDIAN® MK4 FOR THEIR OWN NAVAL UNITS COMMITTED TO THE SEARCH AND RESCUE IN THE MEDITERRANEAN

The Italian Coast Guard has chosen for its class 200 patrol boats the new generation of naval tactical mission systems developed by the Italian Company A.ST.I.M., led by Maurizio Minghelli, with which it consolidates a profitable and lasting relationship of collaboration.

Ravenna, November 23rd 2018 – Committed to the forefront of the management of migratory flows in the Mediterranean, the **Coast Guard** continues to turn to a reliable partner such as **A.ST.I.M.**, the company led by Maurizio Minghelli who has been manufacturing products, systems, services and integrated high-tech solutions, able to cover the defense, protection and security needs of Governments, Institutions and Armed Forces.

The last collaboration involved the **offshore patrol boat CP 274** which recently was the subject of a **refitting** that affected the **navigation system**, totally renovated with the installation of **SeaGuardian® TMS SAR MK4**, the new technological generation of mission systems for naval and law enforcement units developed by A.ST.I.M. and a **new fully integrated radar system**.

Peculiarity that makes the system extremely advanced is to be an innovative ECDIS/W-ECDIS (Warship-Electronic Chart Display and Information System) system, compliant according to STANAG and international standards. It is able to **natively integrate** numerous radar sensors and display their images in overlay to the digital electronic cartography; to **manage the chart standards** ENC Electronic Navigational Chart type S-57, S-63, DNC Digital Nautical Chart and CM93/3; to **simultaneously represent** nautical and terrestrial maps and AML layers additional Military Layers, according to the mission's operational needs. Added to this is the ability to **plan navigation or mission** through special integrated software tools (with the possibility also to manage any support and cartographic product accessible from ESRI® servers, local or remote); to integrate to the other functionalities typical of **navigation systems** (management and representation of radar and W-AIS targets in overlay to the map, route planning and related interfacing to the onboard autopilot) also those **specific SAR**: it is possible to create and manage grid maps, surveillance areas and research patterns codified according to the technical-operational protocols of the Italian Coast Guard and can represent and manage areas of national and international SAR competence. The system is also able to interface with VHF, UHF, HF and SATCOM **radio equipment** and vectors to intercept and represent the emergency requests on the map, or for command and control needs and for a tactical management of the mission.

The **navigation component** of **SeaGuardian® MK4** represents the landing point of the work of the last 24 months by the company's Research and Development department, which has completely redesigned and updated the system compared to previous versions both from the software point of view (based on **THERMONAV®**, the **proprietary A.ST.I.M.'s technology**) and hardware components. Development that continues in the direction of new and even more complex operational capabilities, responding to the needs of the constantly changing market.

To the ECDIS/W-ECDIS navigation component, SeaGuardian® MK4 can support the **tactical and operational management** one (called TMS Tactical Mission System), much more complex and powerful, which allows the system to be among the leaders not only of the law-enforcement market, but also the military one. The new SeaGuardian® MK4 boasts, in fact, a radically modified system architecture, open type, able to operate in environments with both distributed and centralized intelligence, and allows a great flexibility of use, thanks to the wide use of components of type COTS. It can manage a greater number of detection sensors (surface and

underwater), actuators (weapon systems, lethal and non-lethal) and countermeasures, as well as boast a vastly expanded surface surveillance sensor suite. The most critical sub-systems are of the mission critical type and employ fault-tolerant HW/SW solutions or capable of achieving fail-safe SIL2/SIL3 degrees (with respect to IEC 61508) in the most critical technical/operational components. Different specialized mission modules and specific anti-warfare components form the core of the TMS component.

During the summer, while the unit was engaged in the assigned missions, SeaGuardian® MK4 represented one of the most relevant on-board systems, collecting thousands of miles and hundreds of hours of navigation. After the previous experiences on board units of class 300, 400, 800 and 900, the Coast Guard has chosen to rely on A.ST.I.M. also for a 200 class patrol boat, thus confirming its confidence in the solutions developed by the Italian company; over the years, it has handed over to the Coast Guard various systems of naval mission for the management of maritime emergencies and for infrared observation, and today it is a reliable partner also for the technical updating of the naval units in use at the Corps.

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A.ST.I.M. srl operates in the design and development of high-tech systems. Active mainly in the aerospace and defense sectors, its solutions are also appreciated in other areas such as security, strategic infrastructure and naval. The different product lines are now used in helicopters, civil and military naval units and emergency vehicles, as well as in defense of many strategical sites. The feather in company's cap is the THERMONAV® technology from which are derived SeaGuardian®, HiProDOME, Silent Shadow and TALON product line. Always linked to its origins and to the industrial field in which it has developed, A.ST.I.M. srl provides solutions for naval automation with the Sailing Manager brand and, to some leading industrial groups, advanced solutions for industrial automation, robotics and process control, production traceability, integration to management systems enterprise, predictive and proactive maintenance. Maurizio Minghelli, CEO and founding partner of the company, in addition to defining the A.ST.I.M. business strategies is also the head of the R&D division, currently engaged in the development of new solutions for Special Forces operations and other new products for markets that, in the future, may be with strategic importance.

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