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Saab brings new autonomous capability to naval vessels

Saab presents Autonomous Ocean Core, a ready-to-use autonomous control system to provide autonomy capabilities to surface and subsurface naval platforms in military and civilian missions.

Autonomous Ocean Core is a vessel agnostic control system with an open architecture, designed to make vessels autonomous to enhance their mission success at sea. It provides baseline autonomy, including vessel control, to platforms on or below the ocean surface and allows operators to add additional capabilities continuously without losing built-in safety functions.

With Autonomous Ocean Core integrated, un-crewed vessels can operate on missions such as mine detection and clearance, intelligence, surveillance and reconnaissance, as well as electronic warfare.

The system has different modes for maneuvering on a mission, each supporting precise control and operational flexibility based on the mission's need. Furthermore, the system can be configured to operate in three different manners, each tailored to specific operational needs and safety requirements.

The system is ready to perform tasks right out of the box, with or without added functionality. With safety assured, it provides a solid foundation for expanding autonomy capabilities through Saab's continuous development and third-party collaborations.

"The development of naval unmanned and autonomous units is progressing, enhancing capabilities for maritime security operations. Autonomous Ocean Core can boost key operational strengths for the dull, dirty, dangerous and dear. This control system gives our customers a tactical edge, increasing availability and efficiency and becoming less dependent on active manpower," says Mats Wicksell, Senior Vice President and Head of Saab's Business Area Kockums.

Saab's leadership in autonomous systems include Autonomous Surface Vehicles (ASVs) and Underwater Vehicles (AUVs) working with seabed infrastructure, anti-submarine warfare training and mine hunting.

Saab is a leading defence and security company with an enduring mission, to help nations keep their people and society safe. Empowered by its 24,000 talented people, Saab constantly pushes the boundaries of technology to create a safer and more sustainable world. Saab designs, manufactures and maintains advanced systems in aeronautics, weapons, command and control, sensors and underwater systems. Saab is headquartered in Sweden. It has major operations all over the world and is part of the domestic defence capability of several nations.

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