Seatronics Sells Two Reusable Mine Disposal Systems to Elbit Systems

Seatronics, a brand in Acteon's Data and Robotics division, has begun the final installation and commissioning phase in the first sale of two mine identification and detonation solutions (MIDS) to Israeli company Elbit Systems Ltd, one of the world's largest defence contractors. The MIDS is the first truly multi-shot, configurable mine disposal solution that can detonate multiple charges acoustically, using state-of-the-art technology, without having to sacrifice itself.

Elbit's innovative Seagull unmanned surface vehicle (USV) has been specifically designed to host a variety of MIDS-related solutions, one of which is the Seatronics MIDS. The Seagull USV is a suitable host platform for remote deployment of the Seatronics MIDS remotely operated vehicle (ROV) using a custom launch and recovery system.

Advanced Onboard Sensory Features to Detect and Classify Objects

The MIDS ROV can be deployed from the Seagull in fully autonomous, semi-autonomous or supervised autonomy operational mode, or operated via satellite link from the mother ship or any other remote location.

The solution shares several design features with the company's proven VALOR platform, but also includes a range of highly specific, high-end sensors, such as an advanced inertial navigation system and sonar and optics technologies, that are combined within an onboard object classification system that enables the MIDS to accurately detect and classify objects that may be threats. The target classification solution uses a variety of onboard sensory features that use machine learning and AI algorithms to determine whether to categorize seabed and floating items as potential mine or mine-like objects. This information is then seamlessly passed to the command centre, where the decision can be taken whether to neutralize or destroy the target.

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