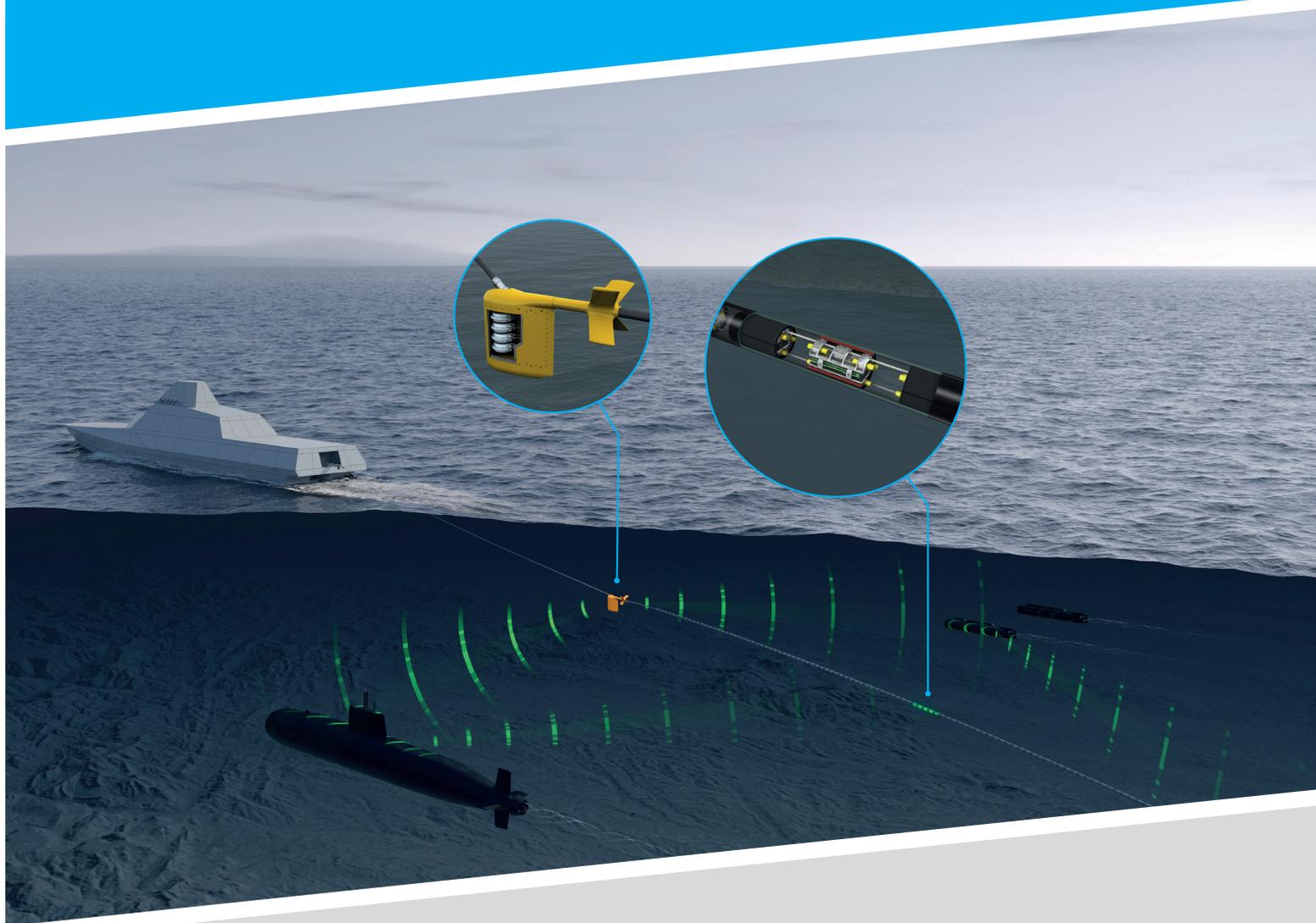


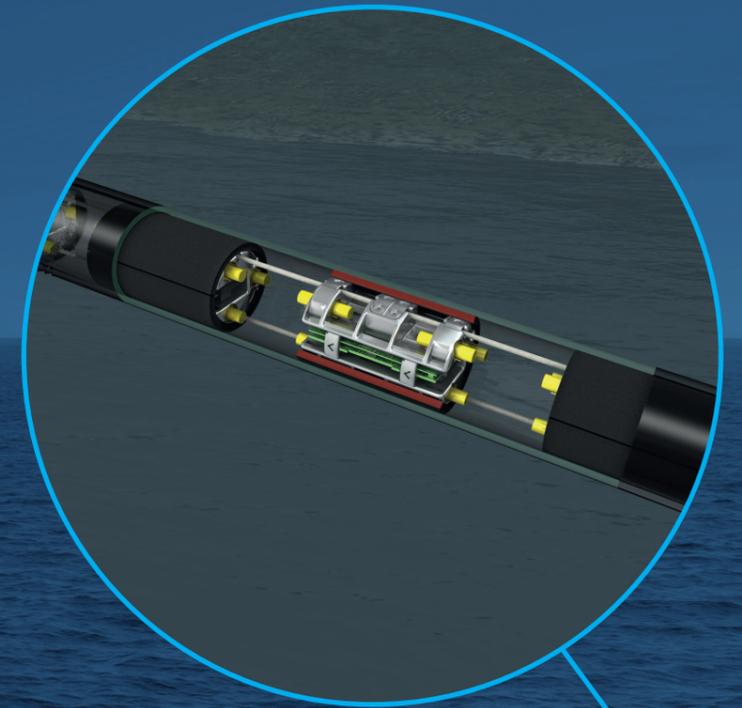
# SeaSense

Underwater Threat Detection



... a sound decision

# WHAT IS SeaSense?



## ARCIMS-SeaSense OVERVIEW:

The submarine threat is both real and local; the number of submarines is increasing and mini subs that operate in shallow, congested waters can threaten infrastructure and shipping, gather intelligence, deliver narcotics, or simply present a strategic threat against neighbouring countries.

SeaSense is a variable depth sonar deployed from a Corvette or smaller surface vessel for area-constrained search and detect operations such as:

- Littoral patrol
- Choke points
- Picket-fence operations
- Security, anti-piracy and drugs interdiction

Capable of operating in challenging environments that may be non-military, open sea lanes with high levels of commercial traffic, and in the littoral zone in shallow waters.

## FEATURES AND BENEFITS OF SeaSense:

- Towed Variable Depth Sonar (VDS) that provides underwater acoustic detection, classification and localisation
- Detection of submerged submarine, mini-submarine and large diver delivery vehicles at sufficient range for a potential attack to be countered
- Solution for harbour protection, security of coastal infrastructure, Task Force protection, and drug interdiction
- Medium frequency sonar optimised for detection performance whilst minimising power and size/tow load impact of the sonar

# SeaSense VARIABLE DEPTH SONAR

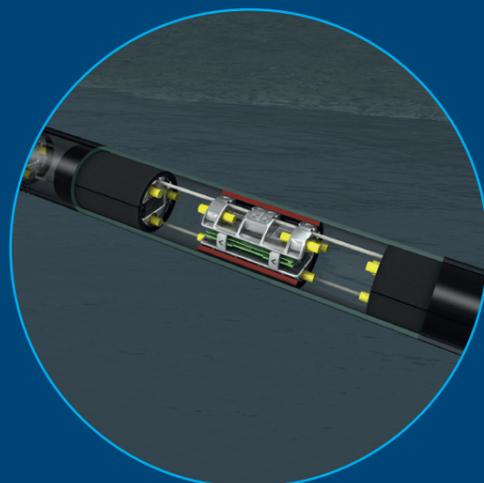
An active sonar that is capable of detecting submerged submarines, mini-submarines and large diver delivery vehicles at sufficient range for a potential attack to be countered.



## Active Transmit Sonar

The active sonar is housed in a hydrodynamically optimised towed body for the deployment of a vertical array of medium frequency transmitter rings at variable depths. A wide bandwidth pattern has been selected to provide detection of smaller target vehicles in congested noisy waters, typically experienced in the littoral zone and around harbour infrastructures.

The omni-directional projector gives 360° coverage from a single transmission with the vertical array focusing the sound for maximum detection range.



## Receive Array

Highly sensitive Towed Receive Array with left-right ambiguity resolution can be used for monostatic, bistatic or multistatic operations. Rapid resolution of directional ambiguity using the nested triplet hydrophones avoids time consuming manoeuvres in order to perform target motion analysis. The array utilizes non-acoustic sensor information such as heading, temperature, and depth to refine the performance of the receive sensor.



## IN SERVICE SUPPORT

To complement SeaSense, the Services and Support team at **ATLAS ELEKTRONIK UK** work with customers to deliver tailored support solutions, designed to be flexible and adaptable to meet change – ultimately ensuring the operational readiness of all craft and systems.

The AEUK Services and Support team is made up of three capabilities, comprising of experienced technical and support staff:

- Integrated Logistics Support (ILS)
- Customer Support and Field Service Engineering
- In Service Support Management

The integrated team is able to provide dynamic, coordinated through-life support. A single point of contact is offered for all support-related matters.



## CONTACT

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