

DDS-03

Diver Detection Sonar

Defence Market

The DDS-03 is a high-frequency active sonar specifically designed to protect ports, anchored vessels, and critical infrastructures against underwater threats.

The DDS-03 can be integrated with any surveillance system.

False Alarm Reduction

When tracking a threat, the DDS-03 automatically generates an alert indicating the position, distance, trajectory, and type of contact of the threat. Various tactical graphics show the position of the threats and speed, providing 4 simultaneous fields of view 90° / 180° / 270° / 360°.

The automatic detection, classification, and tracking functions provide reliable alerts of multiple underwater contacts with a minimum of false alarms.

The solution for demanding scenarios

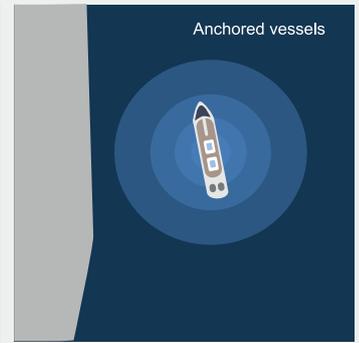
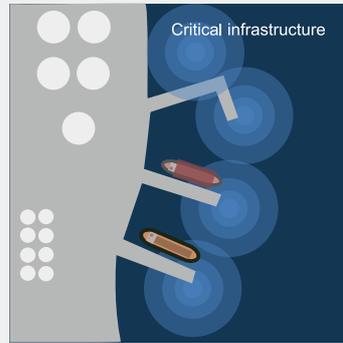
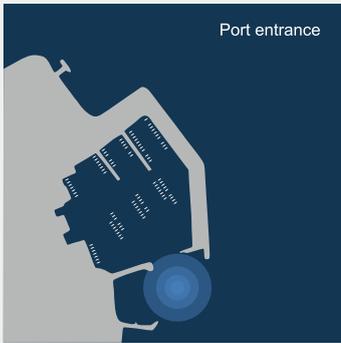
High performance even in difficult scenarios with unfavorable propagation conditions such as warm waters.

Deterrence System

Additional reaction system to any underwater intrusion. The deterrence system allows the operator to send underwater warnings to the diver and can be installed on a patrol boat.



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Coverage

The DDS-03 covers 360° surveillance. To extend the protection coverage, additional sonar units can be added. The transmission beam orientation ensures detections at any deployment depth.

Alarms, Tracking and Classification

The DDS-03 provides automatic alarms, tracking and classification. The algorithms for false alarm reduction are based on Weight Of Evidence (WOE) techniques.

Dimensions and Design

Its units are lightweight with compact dimensions and WIFI communication for easy installation on board ships. The DDS-03 complies with environmental, shock and vibration standards.

Installation

Different deployment methods depending on the operational use and areas to protect. The DDS-03 can be integrated with any surveillance system.

HMI and Displays

The HMI provides sonar displays and area maps. Simple and intuitive software. No specialized operator is required.

Mobile Devices

Application to easily guide security forces to the position of the threat.

Cost-effective

The system's architecture and modularity, based on COTS, offer a cost-effective solution for underwater surveillance and protection of large areas.

Performance Analysis

Software to calculate the probability of detection related to range and the best depth to deploy the sonar.

Deployment

Two deployment modes: hanging from a davit or fixed to the side of the ship or dock.

Other features

Emission of CW and FM pulses. Adjustable levels. Integrated heading and attitude sensors. Recording and playback capabilities. Fully integrated BITE.

A high-performance solution for all scenarios.