DSIT Solutions Ltd.

For the past two decades DSIT Solutions has been developing and applying state-of-the-art technology to create advanced sonar systems and C&C applications for defense, commercial, energy and homeland security markets. Our systems are designed to bring customers the latest technology in underwater systems as well as in training and simulation. The company is a subsidiary of Acorn Energy Inc. (NASDAQ: ACFN).

AquaShield™ Diver Detection Sonar

AquaShield ER™ SDV Detection Sonar

AquaShield™ and AquaShield ER™ Diver and SDV Detection Sonars

DSIT is a world leader in the area of underwater site security systems. The company's AquaShield™ is the most advanced Diver Detection Sonar (DDS) available. The AquaShield™ is designed for the protection of coastal and offshore critical assets against all types of underwater threats. The system provides automatic detection, tracking, classification and alert of underwater threats at long ranges. This capability, combined with the system's configuration flexibility, makes it a very cost effective underwater surveillance system.

The AquaShield™ fully automatic operation eliminates the need for a trained sonar operator. The system display provides all data required for a wise and timely response. The AquaShield is operational in sites around the world.

To allow better response time and longer detection ranges DSIT introduced the AquaShield ER™ (Extended Range) that provides unmatched detection ranges to the various threats such as SDVs, UUVs and Divers. The AquaShield ER™ offers the same features of the AquaShield including fully automatic operation and robust design for permanent underwater installation.

PointShield™ Portable Diver Detection Sonar

PointShield™ Portable Diver Detection Sonar

The PointShield™ is a compact Portable Diver Detection Sonar (PDDS). It offers fully automatic detection, tracking, classification and alert of underwater threats. The PointShield™ offers robust design for rough sea operations; yet its size and weight make it easy to lift and deploy off boats. The system is also suitable for permanent installations. The PointShield™ is ideal for protection of navy ships, commercial vessels, yachts, water intakes and canals.

PAR™ Portable Acoustic Range

PAR™ Portable Acoustic Range

DSIT has significantly reduced the expense associated with vessel noise measurement. The company's Portable Acoustic Range (PAR™) system accurately measures the radiated noise of submarines and ships. The system enables navies and shipyards to monitor and control this noise and silence their vessels. Using the PAR™ saves the maintenance costs involved in operating a fixed acoustic range.

The PAR's unique design enables rapid deployment at any sea depth, without the need to anchor the range. Through continuous tracking of the measured vessel and wireless transmission of data to a measurement ship, the PAR system provides real time radiated noise processing, analysis and display. Ordered and operated by five navies and shipyards, the PAR is the world's best seller portable acoustic ranging system.
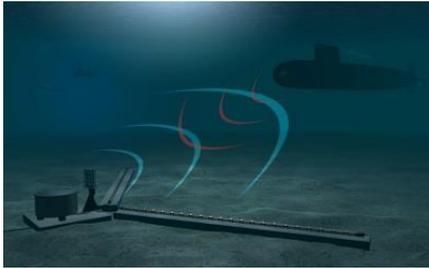
SeaShield™ Underwater Coastal Surveillance System
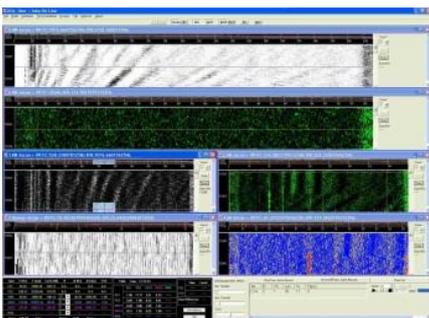
SeaShield™ - Underwater Coastal Surveillance System

SeaShield™ is low-medium frequency static sonar that is installed along critical coastlines, maritime borders and in proximity to harbor entrances. The SeaShield™ is designed to serve as a long range underwater surveillance system against the threat of submarines and smaller submersibles.

The SeaShield™ supports automatic detection of threats and is capable of distinguishing between submarines and other underwater objects. An automatic alert is given once a submarine or a mini-sub is detected. The system combines active and passive sonar arrays to provide real-time underwater monitoring of large underwater areas.

Submarine Tactical Trainer (STT)

Generic and Tailored Sonar Simulators

DSIT offers a wide range of sonar training and simulation solutions for all levels of sonar operations: Operator, Team, and Tactical. Throughout the years the company has accumulated hands on experience in simulating different types of active and passive sonar systems including: Hull Mounted Sonars, Variable Depth Sonars, Submarine Sonars, and more.

The company's flagship trainer is its Submarine Tactical Trainer (STT). This submarine tactical trainer is a full mission trainer that accurately simulates all sonar and weapon systems present on board the submarine. It enables the sub's crew to train in surroundings that are identical to those of a submarine at sea.

Underwater Acoustic Signal Analysis (UASA) System

Underwater Acoustic Signal Analysis System

The Company's Underwater Acoustic Signal Analysis (UASA) system processes and analyzes all types of acoustic signals radiated by various sources and received by passive sonar systems (submarine sonars, towed arrays and fixed bottom moored sonar systems). The UASA applies advanced processing algorithms to derive classification and identification parameters of the signal source. The system also includes extensive database tools.

Quality Assurance

All of the Company's hardware and software development activities are ISO9001:2008 and ISO 9000-3:2004 certified for the design, development and integration of software, hardware, and embedded systems. Strict adherence to these standards and to the highest military standards is maintained, as are rigorous project management policies.