

COMPREHENSIVE UNDER WATER SECURITY SOLUTION FOR HARBORS & CRITICAL ASSETS

C4i Solutions' Underwater Defense & Security System (UDSS) Suite is a reliable underwater System of Systems, that was designed to protect critical assets such as naval ports, commercial ports, energy terminals, offshore platforms and other high value assets from underwater intrusion.

The UDSS suite is a comprehensive System that was designed to search, identify, track and in some cases neutralize all types of underwater threats, including Submarines, Mini Submarines, Semisubmersible vehicles, Divers using a Rebreathing Apparatus, Scuba Divers, Unmanned Underwater Vehicles (UUVs), and many more.

The system was designed to work 24/7, in all weather conditions and is suitable for operation in both shallow and deep water.

The main building blocks of the UDSS Suites include the AquaShield™ - Stationary Diver Detection Sonar (DDS), PointShield™ - Portable Diver Detection Sonar (PDDS) and the Yellowfin™ - Mission Control System (MCS).

ABOUT DSIT SOLUTIONS LTD.

C4i Communication ("C4i"), a subsidiary of Rafael Advanced Defense Systems Ltd, is an Israeli company which focuses on underwater defense and security solutions. For the past three decades C4i has been developing and applying state-of-the-art sonar systems and underwater acoustic technologies to create advanced sonar and acoustic systems for homeland security, defense, commercial, and strategic assets markets.

All the company's hardware and software development activities are ISO 9001:2015 and ISO 90003:2004 certified for the design, development and integration of software, hardware, and embedded systems. The company is also ISO 27001:2005 for information security.

C4i underwater comprehensive defense solution is an End to End defense system, implementing a full range of underwater systems to counter any underwater threat, including but not limited to submarines, semisubmersible vessels, UUVs, hostile divers and more.

C4i's comprehensive underwater defense and Security suite supports the nation's interests of protecting its strategic assets from land and sea threats and its interests of keeping the maritime trading routes safe and secure for transit.

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C4i
communication

UNDER WATER SECURITY SOLUTIONS

For Harbors & Critical Assets

A Comprehensive Under Water Security Solution for Harbors & Critical Assets

YELLOWFIN™ MTD

AQUASHIELD™

YELLOWFIN™

POINTSHIELD™

POINTSHIELD™

POINTSHIELD™

AQUASHIELD™

Underwater Diver Detection Sonar

- Innovative Stationary Diver Detection Sonar (DDS) system, incorporating years of experience accumulated from continuous operation at multiple sites around the world.
- Currently protecting: Naval and Commercial Ports, OIL/GAS Rigs & Terminals, Nuclear Power Facilities, Offshore Platforms and Canals from underwater intrusions.
- Capable of detecting, classifying and tracking a

wide range of underwater threats in all weather conditions. Works 24/7 in all weather conditions and suitable for operation in shallow and deep water.

- Includes three array configurations: 120°, 240° and 360°. Tailor designed according to site geography and customers' requirements.
- Fully automatic, low maintenance requirements and high system reliability.



YELLOWFIN™

UDSS Mission Control System

- Underwater Security system Suite (USDD) Mission Control System (MCS). Unparalleled in its advanced acoustic signal processing.
- Supports fully automatic operation, from detection, through tracking to classification and alert, thus eliminating the need for a well-trained sonar operator.
- Advanced signal processing algorithms and high reliability that ensure a very high Probability of Detection (PD) with very low False Alarm Rate (FAR).
- Includes continues BIT and an option for a built-in training simulator.
- Capable of precisely directing an Electro-Optical device to track the divers when they emerge from the water.



YELLOWFIN™ MTD

Mission Tactical display

- Enables the response vessel to keep track of the threat classified by Solutions YellowFin™ MCS at long ranges.
- Provides real time communication between the YellowFin™ MCS and a Mobile Tactical Display Providing real time guidance of the response vessel to the location of the threat.



POINTSHIELD™

Underwater Portable Diver Detection Sonar

- Innovative lightweight, Portable Diver Detection Sonar (PDDS). Based on the AquaShield™ Technology and experience. Protecting ships and smaller sites worldwide.
- A robust system that can withstand rough waters and long - term continuous underwater operation. Ideal for temporary as well as permanent standalone installations as well.
- Provides Omni-Directional (360°) coverage, creating a security sphere that surrounds the protected object from all sides and covers the entire relevant water column.
- Fully automatic, very low maintenance requirements and high system reliability.

