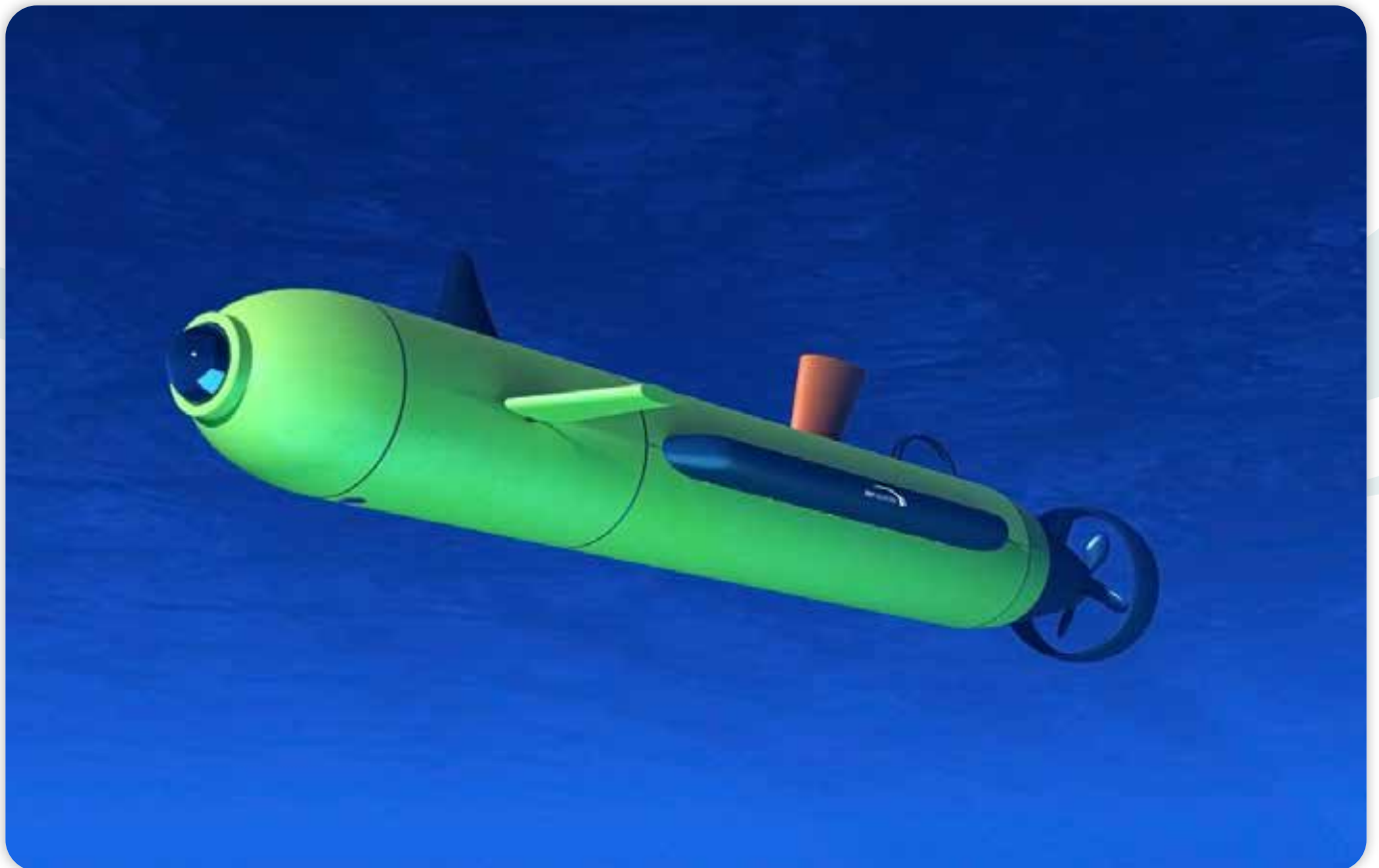




DogFish™ - Multi-Mission Sonar System for Underwater Vehicles

The DogFish Sonar System, designed for underwater vehicles, autonomously detects, tracks, and classifies underwater threats, maximizing underwater awareness and security.



Delivering Powerful Defense Against Underwater Threats

In response to the proliferation of underwater threats from manned and unmanned underwater vehicles, DSIT has developed the state-of-the-art DogFish Sonar System, designed for use by underwater vessels and drones of various sizes engaged in ASW and HLS missions. The autonomous DogFish system provides long-range underwater target search, high-resolution detection, tracking, and classification of all types of underwater threats – including submarines, mini subs, semi-submersible vehicles, moored mines, underwater gliders, UUVs, and armed AUVs.

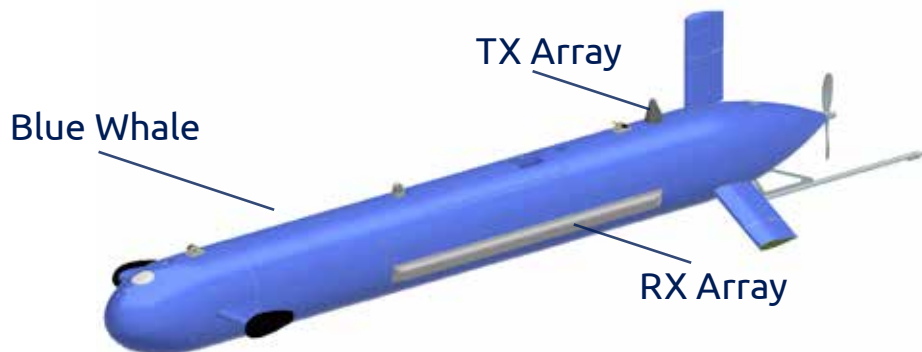
Innovative and exceptionally flexible, the DogFish Sonar System is suitable for a wide range of stealth underwater search and alert activities. The system – which is adaptable to any underwater vessel or drone operates simultaneously in active and passive modes at medium to high frequency, at a range of depths in both littoral and deep water, and in a variety of acoustic environments.



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Implementing today's most advanced electronic and acoustic technologies, the DogFish system utilizes Artificial Intelligence (AI), Machine Learning (ML), automation algorithms, cutting-edge signal processing and acoustic analysis techniques. Together with the system's autonomous capabilities, these technologies enable a high level of situational awareness which is critical for safeguarding current and future underwater environments.

Lightweight, with an exceptionally low signature, the DogFish system is suitable for a wide range of ASW and HLS underwater missions. It can be used as a standalone solution, as part of a swarm, or combined in multistatic operations with other DSIT sonar systems such as DSIT's ASW BlackFish HMS and SwordFish TAS as well as SeaShield CDAS and AquaShield DDS. The system can also communicate with DSIT's WhitePointer UCS, expanding a navy's capabilities for a wide range of missions and underwater surveillance.



System Components

The DogFish system's main components include a 360° Transmitter Array, two Receiver Arrays, an electronic unit, and a shore data analysis system.

Benefits

- Suitable for a wide range of ASW and HLS missions at various depths
- Suitable for any underwater manned or unmanned vessel
- Multiplies navy HLS, ASW and underwater detection capabilities
- Lightweight with minimal space requirement
- Designed to work in deep waters
- User-friendly HMI and GUI (in the shore data analysis system)

Main Capabilities

- Medium- to high-frequency active sonar
- Passive broadband and narrowband automatic detection, autonomous tracking & classification of underwater targets
- Detects submarines, mini-submarines, moored mines, AUVs, semi-submersible and surface vessels
- Operates in active, passive, or parallel modes of operation
- Utilizes advanced electronics and acoustic technologies, Artificial Intelligence, Machine Learning, automation, and signal processing
- Works with DSIT UCS and other sonar systems