



Synthetic Aperture & Mine Detection Imaging Sonar (SAMDIS)



Intelligence Preparation of the Environment (IPOE) & Mine Warfare (MIW)

Advanced Acoustic Concepts' (AAC) Synthetic Aperture & Mine Detection Imaging Sonar (SAMDIS) provides an unmatched Synthetic Aperture Sonar (SAS) capability in a solution scalable to any Tow-body, UUV, LDUUV, or XLUUV. SAMDIS is a 4th generation SAS offering multi-aspect processing of ultra high resolution SAS imagery, enabling single sweep detection and classification. SAMDIS outstanding performance provides Automatic Target Recognition (ATR) that eliminates Post Mission Analysis (PMA) and supports Autonomous Mission Execution.

SAMDIS, integrated with Volume Search Sonar (VSS), is the ideal solution for Mine Warfare (MIW) on a UUV or on AAC's actively stabilized tow-body (T-SAM) behind a USV.

XLUUV & LDUUV with an organic SAMDIS could perform bathymetric navigation while conducting other missions, such as Intelligence Preparation of the Environment (IPOE) or MIW.

MIW



USV



T-SAM



UUV

IPOE & MIW



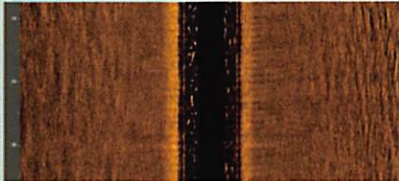
XLUUV



LDUUV

WORLD CLASS UNDERSEA WARFARE SOLUTIONS FOR TOMORROW'S NAVY

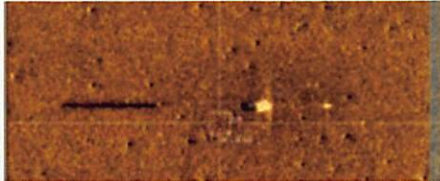
Modular



UxV Ready

- Lightweight
- Scalable Array
- Compact Electronics
- Low Power
- Real Time Processor
- Active Stability
- Proven in Sea State Four

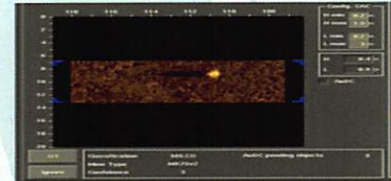
Accurate



4th Generation SAS

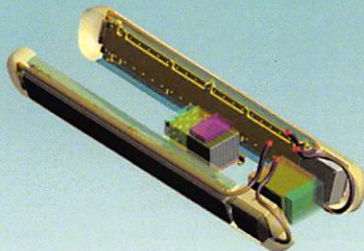
- Eliminates Post Mission Analysis (PMA)
 - > Ultra High Resolution
 - > Multi-Aspect, In-Stride Detection & Classification
 - > Auto Target Recognition
- Low False Alarms
- Bathymetry

Adaptive



In Mission Targeting

- Mission Planning
- Performance Monitoring
- Autonomous Mission Reconfiguration



U.S. Based Manufacturing and Support Leveraging Allied Investments



Advanced Acoustics Concepts - A DRS/Thales Company

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