



SALT
Subsea Asset Location Technologies Ltd

Pioneers of the SonarBell™

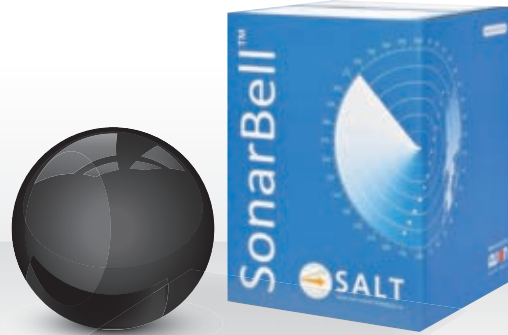
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SonarBell™

SPATS - Performance And Training Recovery System

Defence Products

SALT has designed a number of systems for military and security use utilising the unique properties of the passive SonarBell™ technology of which the SPATS system is one.



“Accurate knowledge of detection ranges allows a graduated response by those charged with the interception of the intruder”.

➔ Accurate Target Simulation

Not only does it provide a simple method of measuring system operational performance on a ping by ping basis but SonarBell™ provides a realistic target mimic for operator training and exercise.

➔ Knowledge is power

Knowing how long you have to respond to any perceived threat allows for more appropriate management of the interception teams available – correct management will result in less wasted time in potentially hostile conditions and consequently reduced team fatigue.

➔ Operational Response

SonarBell™ is out there, so you don't have to be!

Ideal water conditions allow for detection out to ranges of 800 to 1000m but...

Changes of temperature, salinity and suspended particulates can affect the range dramatically in a very short time.

SonarBell™ allows you to have real time range information enabling optimal deployment of response teams.

Positioning SonarBells™ every 100m from the swimmer detection sonar provides the range information you need.



“Know your sonar’s operational performance when it really matters”



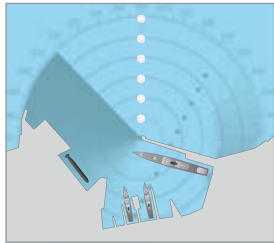
➔ Training

Cost effective operator training is possible through the use of SonarBell™ deployed either statically into the water column or via a “tow” from a surface vessel. SonarBell™ can be manufactured to give different return strengths and thereby provides targets with different signatures for operator and sonar work-up and exercise training.

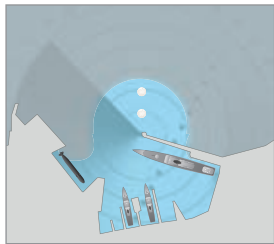
➔ Easily and Rapidly Deployed

Due to its simplicity and omni-directional nature the SonarBell™ is dependable and easily deployed. Installation is simply a matter of deploying the SonarBell™ at the appropriate range marker over the side of a small vessel.

Unlike alternatives, SonarBell™ provides a consistent target strength giving a clear indication of water conditions. SonarBell™ does not require a shore power supply or batteries to operate making installation and maintenance substantially simpler.



A typical diver swims at 1 knot - a diver detected at 800m would take 26 minutes to arrive on target – plenty of time to respond.



Changes in water conditions could reduce the detection time to 6 minutes.

Other Defence products available from SALT include:

SonarBell™ Entry, Exit And Recovery System - SEEARS

SonarBell™ are capable of supporting combat swimmers during the entry, exit and recovery operational phases, acting as waypoints between compass bearings and can also be used to mark the location of equipment for recovery during or after operations.

SALT provide a set of SonarBells™ and hand-held sonar tuned for optimal performance.



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SonarBell™ Underwater Mine Marking System - SUMMS

SonarBell™ is a totally passive device with a significant and dependable acoustic signature and low non-acoustic signature. As such it provides an ideal device for marking mines or other objects for subsequent destruction.



SonarBell™ Equipment Tracking System - SETS

Delivering passive tracking of underwater equipment for in-service position monitoring and asset recovery in the event of power failure or loss of communication.

SonarBells™ supplied can be tailored for different size AUV/ROVs and for the frequency of the surveillance sonar.



➔ SALT Bespoke Design Services

As the pioneers of SonarBell™, SALT has unrivalled experience in designing SonarBells™ that meet client requirements. We would be delighted to talk over any specific requirements you might have.

Subsea Asset Location Technologies (SALT) Ltd is a 'spin out' company from the UK Ministry of Defence's, Defence Science and Technology Laboratory (Dstl) and was formed to make this military derived technology available to a wider market.