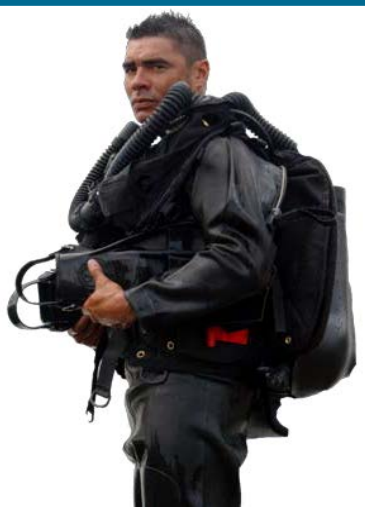
DSES



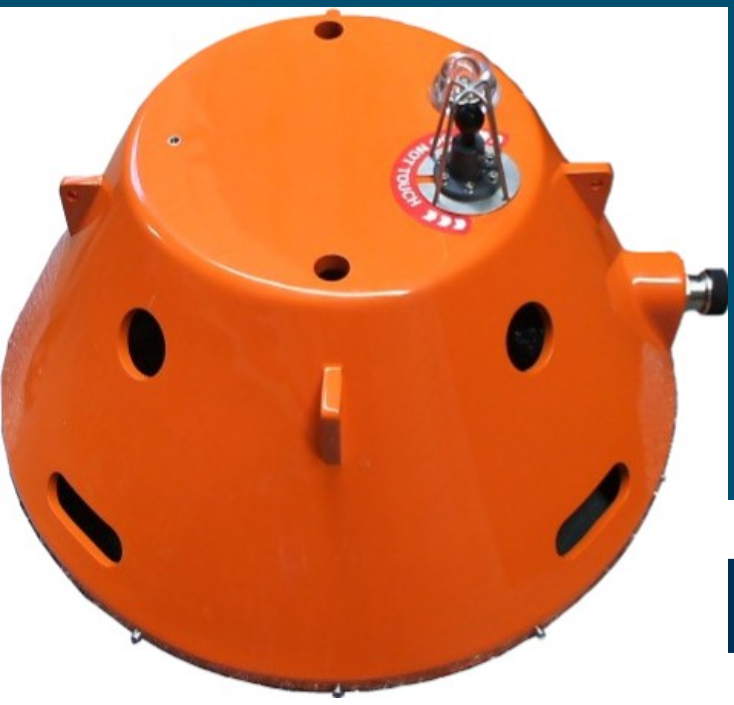
DIVER SIGNATURE EVALUATION SYSTEM

Evaluating Diver and Equipment Performance When Identifying And Deactivating Mines

DSES is a portable system that uses acoustic, pressure and magnetic sensors mounted in a mine shape to collect data on the signature emitted by EOD divers and their equipment.

The software allows the setting of mine thresholds based on threat mine data and the operator console displays real time sensor recorded levels and mine status.

Data can be saved for post mission analysis. Underwater camera footage can be viewed in real time or recorded.



A mine activation warning light and audible alarm are fitted to indicate mine activation when trigger thresholds are reached.

DSES is capable of operating in depths down to 50m in a water temperature range of 2-35^{o}C and for mission lengths of up to 12 hours.

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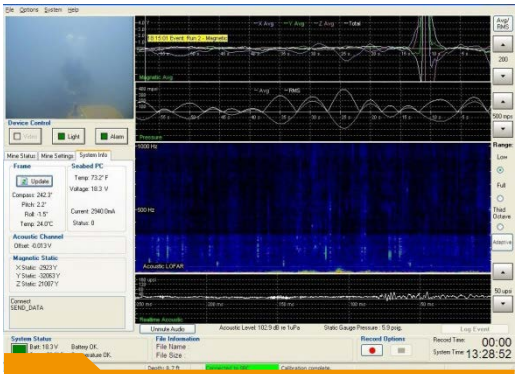
DSES uses sensors and electronic systems mounted in a fibreglass mine shape on the sea bed to collect data and transfer it for real time analysis of the signature from divers and their equipment.

Operation

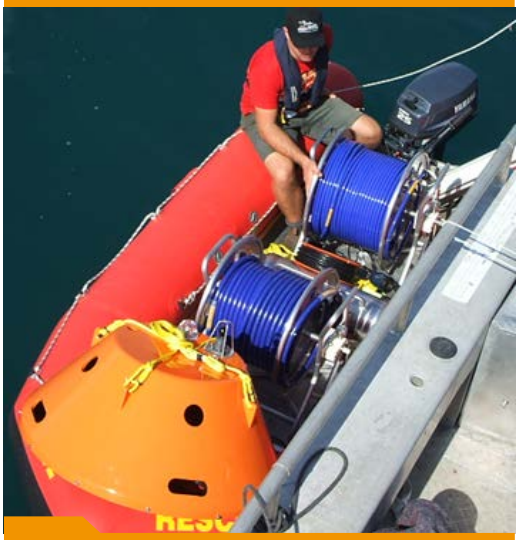
The mine shape is deployed onto the seabed from a RHIB or similar sized boat. The seabed computer is positioned about 50m away whilst the battery pack, laptop and interface box remain in the boat. The system is powered up and the operator sets the required threshold levels before the diver approaches the mine. On completion of the exercise the system is recovered for post mission analysis.

Benefits

- Risk Reduction - enables diver techniques and equipment to be evaluated and verified either in theatre or before operational deployment.
- Lightweight and compact - small and portable enough to be deployed and recovered by 2-3 people.
- Ease of Use - can be deployed and operational in less than half an hour, only requiring a RHIB or similar sized vessel.
- Real Time Feedback - provides near real time feedback on the signature performance of the diver and/or equipment.
- Flexibility - threshold levels for all sensors are operator set based on the mine threat profile.
- Support - the majority of components are commercially sourced reducing the through life costs and supportability risks.



Software



Deployment

Seabed Computer

www.aal.net.nz | Tel: +64 9 477 2143

PO Box 305201, Triton Plaza, Albany, North Shore City 0757, New Zealand | sales@aal.net.nz