

Deployable Mine Countermeasures

Combating the Ultimate Asymmetric Warfare Weapon

Mines are the ultimate asymmetric warfare weapon in naval operations. Whether buried, tethered, concealed, or drifting they have the ability to deny access to a choke point, harbour, amphibious landing site, or even to deep water passages.

The Royal Australian Navy operates Huon Class Minehunter Coastal (MHC) ships, arguably still amongst the most advanced of their type in the world. These ships are specially engineered to minimise the risk to personal in the event of a mine detonation. Ultimately, getting the “mine out of the minefield”, that is, mine neutralisation or mine disposal, is the unique capability that these ships provide.



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EOM Offshore - Sample Products Now Available in Australia

Innovative product portfolio for many ocean monitoring and mooring applications



BlueZone Group is pleased to announce that sample EOM Offshore Electro-Mechanical Cables are now available for demonstration in Australia.

Contact BlueZone for further information and to arrange demonstration of the capability for compliant or non-compliant connection with seafloor assets including:

- Patented Electro-Mechanical Cables
- Marine Recovery Systems
- Universal Joints

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Survey Motor Boat Fleet Re-equips with Teledyne Reson SeaBat® T50P

SeaBat® Sonars Delivered to RAN Hydrographic Service

BlueZone Group is pleased to be providing continued support for the delivery of Teledyne Reson T50 SeaBat® Multi-Beam Echo Sounders (MBES) to the RAN Hydrographic Service. The Survey Motor Boat (SMB) fleet will begin outfit of SeaBat® T50 beginning with SMB Duyfken in June 2019. The four-man boats are designed to operate from the Leeuwin-class survey vessels, with three assigned to each ship.

All T50 SeaBat® MBES will be treated by BlueZone Group with ClearSignal® biofouling protection system. ClearSignal® is a passive, non-toxic polymer coating whose surface properties act as a biofouling inhibitor and foul release coating. ClearSignal® was developed specifically for undersea instruments. It is applied in a one-time treatment designed for the life of the instrument and is optically clear and acoustically neutral, with no loss of effectiveness over time.



[Read More: ClearSignal® for lifetime biofouling resistance](#)

[Read More: Multi-Beam Echo Sounders](#)

Events

Please join BlueZone Group at these upcoming events!

We are keen to talk to you about how innovative new technologies offered by BlueZone can solve issues for your challenges in Australia's oceans, coastal seas, and rivers.

We are happy to answer your questions and arrange on-site demonstrations and further discussion if required.

Society for Underwater Technology - The Future of Subsea Autonomy 12 June 2019 - Perth

BlueZone is pleased to support the SUT Evening Technical Meeting by hosting Mark Gunderson, CEO, Marine Advanced Robotics to present: Multi-domain (Air, Sea & Subsea) Unmanned Maritime System of Systems Approach to Expeditionary Mine Countermeasures.

Marine Advanced Robotics, in cooperation with their technology partners, demonstrated to the US Navy an unmanned System of Systems approach to expeditionary mine countermeasures. The unmanned System of Systems included two types of unmanned subsea vehicles, two types of unmanned surface vehicles, and an unmanned aerial vehicle, all working in coordination to achieve a complex task. The intent was to expand the operational effectiveness beyond any of the individual vehicles by utilizing synergistic capabilities, while simultaneously decreasing overall cost with a network of affordable systems.

Mark joins presentations from the Royal Australian Navy including Evaluating Autonomous Systems and USV "sheep-dogging" AUV. This presentation details how a A 16' Wave Adaptive Modular Vessel (WAM-V) was developed and deployed as an Unmanned Surface Vessel (USV) 'sheepdog' for an Autonomous Underwater Vehicle (AUV), whilst also acting as a test platform for new control behaviours and autonomy software.

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New Products & Services



Tasman Doppler Velocity Log

Next Generation DVL Technology

Teledyne RD Instruments (TRDI) has announced the launch of its new next-generation Doppler Velocity Log (DVL), the Tasman DVL.

With increased bottom tracking ranges from 0.15m to 420m, in up to 6,000m water depth, the Tasman represents the most advanced DVL technology available.

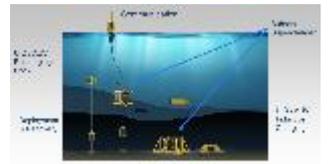
The new 600/300 kHz Tasman DVL, with its reduced size, weight and increased range, has been designed to provide increased accuracy, and an industry first innovative field replaceable phased array transducer design.

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Subsea Supercharger Brings Electric Power to the Seafloor

An energy revolution coming to the seabed

The Subsea Supercharger developed by Teledyne Energy Systems enables persistent AUV/ROV operations without needing a crew nearby to retrieve or redeploy the underwater vehicles, or a tether to supply power from above the water. In addition to the AUV/ROV operations, the Subsea Power System can be used to power subsea instruments that require a longer duration and power than batteries alone can provide.



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The system is fully recoverable and rechargeable.

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