



EOD Workspace

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Greensea IQ Demonstrates Autonomous Explosive Ordnance Disposal Mission for US Navy and Defense Innovation Unit

Richmond, Vermont, 5th December 2023 – Greensea IQ is the first to successfully complete a demonstration of a prototype Autonomous EOD Maritime Response Vehicle (AEMRV) for the Defense Innovation Unit (DIU) and US Navy. Utilizing the advanced capabilities of OPENSEA Edge, the system provides the computing resources needed to power edge perception systems and advanced autonomous behaviors of EOD Workspace, allowing human-on-the-loop autonomy and untethered command and control over the

ROV platform.

The demonstration took place over several days in September in the open ocean off the coast of San Diego, featuring a fully integrated OPENSEA Edge-driven untethered ROV, a VideoRay MSS Defender modified by Greensea IQ to include batteries and an acoustic modem. During the demonstration real world tasks were demonstrated by autonomously searching the environment for threats utilizing acoustic communications.

This groundbreaking demonstration highlighted the autonomy system for EOD Workspace, Greensea IQ's robot agnostic software platform for Mine Countermeasure (MCM) and Explosive Ordnance Disposal (EOD) operations. It also showcased Safe C2, Greensea IQ's communication platform for long-range standoff command and control of autonomous ocean robots, both integrated within the OPENSEA Edge modular, hardware-agnostic system.

Ben Kinnaman, CEO of Greensea IQ, shared his thoughts on the technology "Autonomous intervention technology is the key to increasing our persistence in the ocean, and for making the work we do there safer and more effective. There is no better example of this technology at work than what we have demonstrated to the US Navy and DIU. This software package will make the neutralization of subsea threats safer and scalable using ocean robots."

Kinnaman went on to say "Working with the Defense Innovation Unit has been amazing. DIU has leaned in hard on finding an urgent solution for subsea threat intervention. This program has combined the rigors of engineering with the possibilities of emerging technologies through a program that is equal parts contracting and venture funding to field a prototype in a very short amount of time."

Greensea IQ has worked under contract with the DIU since 2021 to develop a fully autonomous and untethered software platform for ROVs used in MCM and EOD operations. This exercise was the final demonstration of the successful prototype delivered to the US Navy for further evaluation.

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About Greensea IQ

Greensea IQ develops intelligent ocean solutions that drive technical advancement for defense, transportation, energy, and science applications.

The world on and beneath the waves has long been a source of fascination and mystery. As technology advances, our ability to explore and understand the oceans has grown exponentially. Greensea IQ is the merger of three companies at the forefront of this revolution – Greensea Systems, Bayonet Ocean Vehicles, and Armach Robotics. Each of these organizations has made significant strides in marine technology, revolutionizing the way we work in the ocean. Together, as Greensea IQ, emerges a more powerful and innovative company, committed to making the work that is done on and under the ocean more efficient, safer, and for the protection of earth and humankind.

Greensea IQ is the developer of OPENSEA, an open architecture robotics platform that provides control, navigation, and autonomy for the marine industry. One of the key strengths of OPENSEA's technology is its adaptability. The software can be integrated into a wide range of underwater vehicles, from remotely operated vehicles (ROVs) to autonomous underwater vehicles (AUVs). This flexibility makes Greensea IQ's solutions invaluable for various applications, including offshore energy, scientific research, and maritime defense.

Further notes to Editor

Greensea IQ continues to manufacture the Bayonet line of autonomous

underwater ground vehicles (AUGV). Operating from the seafloor to the beachhead, Bayonet AUGVs travel through the harshest conditions where other systems can not. Bayonet AUGVs have been used for UXO search and classification and are suited for near shore inspection for offshore wind and defense, especially in the surf zone. Bayonet AUGVs are available as a Robot as a Service to reduce the initial upfront costs for customers to expand their fleet.

EverClean, the original always clean hull solution originally pioneered by Armach Robotics, will continue with Greensea IQ in a state-of-the-art remote operations center located in Plymouth, MA. EverClean is a proprietary, scalable service solution that provides preventative in-water cleaning and inspection data to maintain optimum vessel performance for extended periods of time.

Greensea IQ continues the progress being made in the field of marine technology by providing the software and hardware that contributes to the sustainable management of marine resources and the protection of underwater ecosystems, as well as the people working on and under the oceans.

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