

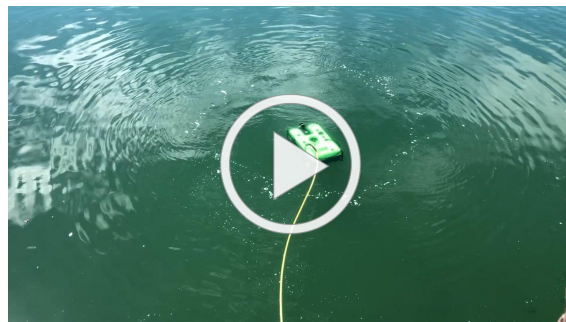
DEEP OCEAN

ENGINEERING

November 12, 2021

QUARTERLY DEEP DIVE

PHANTOM T5 SHOWCASE



This custom ROV includes a new product, an Expansion Module. This module is a small-sized addition to the system. It is housed in its own pressure vessel and is depth-rated for 300m. Including it, allows the ROV system to accommodate additional sensors by providing both power and a high-speed data path to the surface. Power is both 24 and 300 VDC and data is Ethernet, RS485, and RS232.



Also included is an NTSC/PAL video channel for adding additional SD cameras to the system. All of these are standard and are plug-in ready to support most, if not all, third party sensors. Also, the Expansion Module is itself expandable. Another module, or even several modules, can be daisy chained by using a provided connector. This allows for even more power and data paths for larger ROV systems and the most demanding, sensor-intensive ROV operations.

The Expansion Module also enabled the integration of the customer's sonar requirements: the latest multibeam imaging sonar from Tritech, the 1200ik; and a

Super SeaPrince scanning sonar. The client now has the capability to add additional sensors and cameras as their application needs transform. The entire package is controlled via a ruggedized laptop and powered by a compact universal power supply.

SERVICE TRIPS

Post Pandemic Travel Begins Anew with Support Trips to Old Customers

Our sales technician, Darrell Martin, travelled in support of customers in late summer with trips to Arizona and Wisconsin. Both trips were maintenance/upkeep and crew training visits.



The Arizona trip was in support of the Central Arizona Project (CAP). CAP is responsible for the aqueduct running through Arizona which takes Arizona's ration of Colorado River water from Lake Havasu and distributes it southward through the state, terminating near Tucson. CAP uses their Phantom Triggerfish for general exams, typically on the trash rack and forebay structures. This Phantom Triggerfish has been in service with CAP since 2006.

The Wisconsin trip was in support of 2 Phantom P-150s located at Point Beach Nuclear Plant in Two Rivers, WI. The Point Beach trip was also a maintenance/upkeep and new crew training visit. Point Beach is a 2 unit, pressure water reactor power generating facility which came online in 1970. Point Beach has had Deep Ocean Engineering P-150 ROVs on site since 1996.

Darrell successfully completed both trips, leaving both customers even more satisfied with their vehicles. Deep Ocean vehicles are built to last and our customer service for them is unmatched. To find out more on our vehicles, check out our [website](#).

HOLIDAYS AROUND THE CORNER



The holiday season is approaching! It's that time of the year to take a short break and enjoy some good food and spend time with loved ones. We at Deep Ocean will be doing this, as our doors will be closed from Nov. 22 to Nov. 26 and Dec. 20 to Jan. 2. We hope everyone has a great holiday season!

HYDROVISION 2022

See you there!

As many of you may know, Hydrovision 2021 was unfortunately cancelled and rescheduled to July 12-14 2022 due to the pandemic. We have made the necessary changes and will be attending the event in 2022. Hope to see many of you there!

Have a Deep Ocean Engineering ROV or USV?

Support Team

We provide a lifetime of dedicated customer service and support. Contact our support team for field assistance, spares/repairs, or upgrades and technical support.

Submit photos or videos of your Phantom ROV or USV to get a special mention by DOE!

Submit Media

COMPANY INFO

Deep Ocean Engineering, Inc.

Based in the Silicon Valley, CA, we continue to build, design, and manufacture the highest quality ROV systems in the world. At Deep Ocean Engineering, we are able to accommodate all of your ROV and USV needs encompassing sales, service, production, instruction and installation of the most advanced systems in the world.

Visit Our Website

We've got you covered above and below the surface.



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