

Zycraft develops Unmanned Vessel Multidepth Water Quality Sampling

SINGAPORE, June 4, 2024
/EINPresswire.com/ -- Zycraft USV
today announced that it has developed
and fielded a multiple depth water
sampling system onboard an
unmanned boat called the SE40MD.

The SE40MD is a significant improvement over manual water sampling collection methods. Traditionally, water sample collection at depth is done manually using a Niskin bottle and this is laborious and inefficient in terms of resources in labor and time.

The SE40MD vessel is a fully autonomous boat of 1.6m length and weighs 35 kg and is easily handled by 2 persons. It can collect up to 4 one-liter samples or 8 half-liter water samples



Multi-depth Water Sampling Vessel

at different depth intervals of 0.5 m down to 10 m in a single deployment. With an endurance of 6 hours, it is possible to carry out many sample collections. The vessel can be controlled using cellular mobile network which means an operator can monitor the progress from a sheltered control center via an internet connection.

To deploy the SE40MD, a program is used to create the sampling plan of collection at different locations and water depths. The SE40MD then autonomously goes about its task of water sampling. The collection hoses are flushed after each sample collection to ensure no cross contamination of the water sample at the next collection point. After the sampling collection is completed, only one person is needed to transfer the samples from the vessel to bottles for further laboratory analysis. The SE40MD is easily turned around within an hour for further work.

With a position accuracy of less than 1 m and a depth accuracy of 0.5 m, the SE40MD provides excellent comparative analysis of water quality. The data from the computer software can be further collated with the laboratory results for more in-depth analysis ashore.

James Soon, Zycraft's General Manager expressed that "with increasing industrialization and concerns of microscopic waste, it is even more critical to ensure that drinking water resources are continuously monitored to be safe for human and livestock consumption. Having a system that allows 24/7 monitoring of water is essential as no one should let their guard down. The SE40MD is a unique system that ensures water quality monitoring is performed in an efficient and consistent manner."

Zycraft (Zycraft USV Pte. Ltd.), is a company registered in Singapore, and specialises in the design and manufacture of Unmanned Surface Vessels. The company also develops unique total security and fast response solutions for the maritime industry to counter the threat of piracy, sea theft and search and rescue. Please visit www.zycraftusv.com.

James soon Zycraft USV Pte Ltd +65 88287194 sales@zycraft.com

This press release can be viewed online at: https://www.einpresswire.com/article/717039051

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire[™], tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2024 Newsmatics Inc. All Right Reserved.