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News Release

FOR IMMEDIATE RELEASE

ZYCRAFT IUSV COMPLETES 22 DAYS UNMANNED SEA DEPLOYMENT

Singapore – Zycraft announced it has recently completed its longest unmanned endurance deployment of its wholly developed VIGILANT class 17 m Independent Unmanned Surface Vessel(IUSV). The IUSV was deployed into the South China Sea for a continuous period of 22 days during which the vessel moved at a speed of 5 knots with occasional bursts of high speed transits. A total distance of 1900 nautical miles was traveled. The vessel sailed with just over 6000 litres of diesel and returned to its Singapore home port with 2800 litres remaining.

The endurance test validated the fuel efficiency of the vessel which is built using AROVEX®, giving it an extremely strong but lightweight hull. Powered by twin YANMAR 480 Hp marine diesel engines, the test also validated the robustness of the vessel's mechanical and electronic systems in being able to last the entire 22 days at sea.

Command and control of the unmanned IUSV was done using satellite communications from Singapore at Zycraft's command centre. The IUSV was run on auto-pilot mode and carried out autonomous vessel and obstacle avoidance using its proprietary software and making use of information from day and night cameras, radar and AIS(automated identification system).

James Soon, President of Zycraft stated that “this endurance test is a major capability demonstration of the IUSV. It showed that the IUSV can be effectively deployed for surface surveillance tasks for extended periods at sea. Over the 22 day period, we not only learnt important lessons about USV operations, but were also amazed at the knowledge gained in shipping patterns and traffic in the area that can only be realized by a 24/7 presence. Clearly, this test also confirms that when properly equipped with underwater sensors, the IUSV can also be very effective in underwater survey and surveillance work. Our VIGILANT IUSV is currently the only USV equipped

with a SEAKEEPER stabilization system and this is essential during periods of rough seas for effective sensor performance. We were also able to effectively update software to the IUSV in real time based on observations to further improve performances. This validates the flexibility of the VIGILANT IUSV software design.”



Picture : Vigilant Class IUSV at sea during 22 day deployment

Zycraft (Zycraft Pte. Ltd.), is a Singapore company specialising in the design and manufacture of Unmanned Surface Vessels for commercial and government applications. The company also supports counter piracy tasks and develops unique security and fast response solutions for the maritime industry to counter the threat of piracy, sea theft and search and rescue. Please visit www.zycraft.com.

AROVEX® is a product of ZYVEXTECH™ of the USA. It is a next generation prepreg reinforced with carbon nanotubes and graphene. It is the toughest prepreg material available. Please visit www.zyvextech.com

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