

UNI-MAX

Hybrid Unmanned Surface Vessel



1. Introduction

Unique Group has developed the Uni-Max which incorporates a Hybrid Power System, integrating a generator with a diesel tank and Li-Ion Batteries. This new addition significantly extends operational capabilities, enabling prolonged missions in remote or demanding terrains.



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2. Features

> Navigation

- > Front Video Camera
- > Auto Pilot for Manual (remote control), autonomous (transit mode, anchor mode, mission mode.)
- > Radar based Situational Awareness System
- > 1 handheld IP67 remote
- > Navigation lights

> Mission System

- > 1 x (Survey acquisition compatible h/w system, capable of Hypack integration) survey mission c/e interface, linked to the auto pilot mission s/w.
- > 1 x Autopilot mission map s/w
- > Survey electronics for all equipment control





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3. Specifications

Length	5 m
Beam	2.2 m
Weight	1200 Kg (without payload)
Battery Endurance	Capacity up to 96 hours (payload dependent)
Steering	Hydraulic Remote Steering
Propulsion and Power	2 X Torqeedo Cruise6.0RS, Diesel Powered Generator 2 X Li-Ion Batteries
Speed	4-5 Knots
Autopilot System	DACS Autopilot System
Data Telemetry	4G and Uni-Mesh Radio, Remote Redundancy Frequency Controller
Hull	2 x LLDPE pontoons, marine-grade Al deck and canopy.
Sensor Deployment	1 X Actuator based 1 X manually operated payload deployment
Optional Features	<ul style="list-style-type: none"> • Uni-Max is compatible with all major industry standard products subject to dimensions and weight constraints. • Can be configured with Norbit iLiDAR • Additional cameras can be added based on requirement

[Check out Unique Group's range of USVs here.](#)



UNI-MINI



UNI-PACT

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