

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 solar PV cells. 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.)
- AIS and Radar based Obstacle Avoidance System
- 1 handheld IP67 remote
- Navigation lights & AIS

➤ 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
- 1 x winch deployment system
- 1 x survey electronics box 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	2 X Torqeedo Cruise 6.0, Diesel Powered Generator & Battery
Speed	4-5 Knots
Autopilot System	DACS Autopilot System
Data Telemetry	4G, WiFi Radio and Uni-Mesh, Redundancy Frequency Controller
Hull	2 x LLDPE Pontoon and marine Grade aluminium deck.
Sensor Deployment	1 X Actuator based and 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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