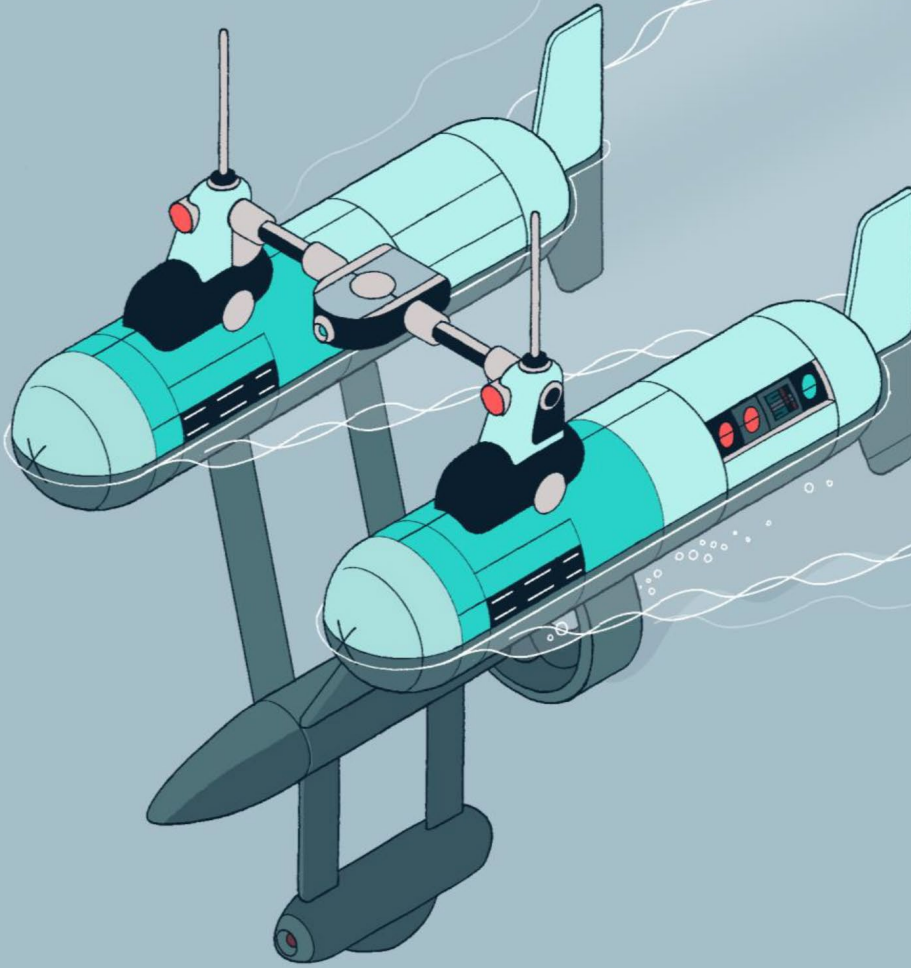


# Unique Group



## ➤ Unmanned Survey Vessels

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Survey Equipment

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Diving + Life Support

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Buoyancy + Water Weights

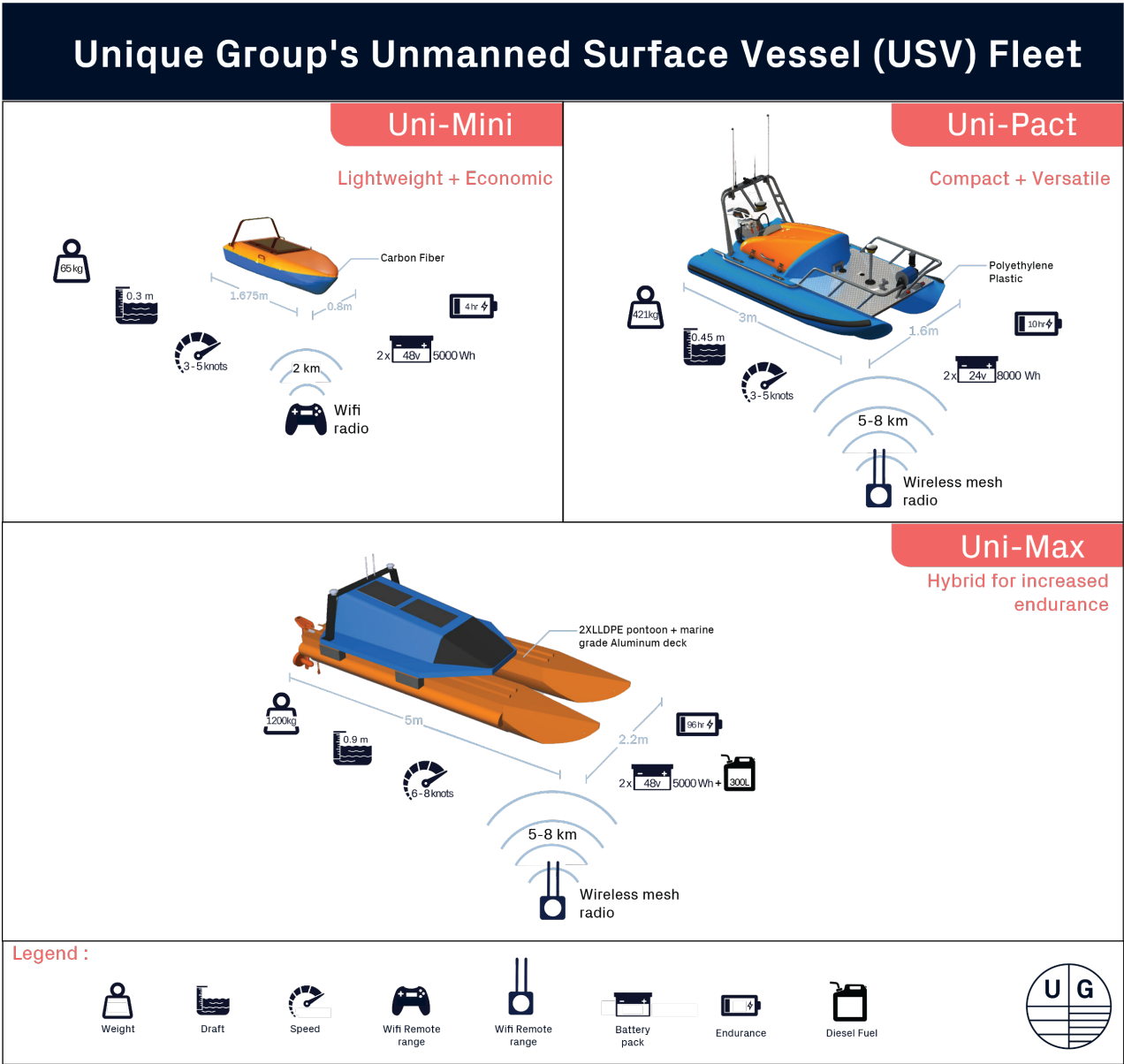
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Lifting + Mooring

# UNIQUE GROUP USVs

## Comprehensive Fleet

The Uni-USV range has robust, flexible systems, efficient mobilization and simplified logistics to suit clients in short / long term hires, with integration, testing and optional operational support available for client convenience.





## UNI-MINI

Unmanned Surface Vessel



### 1. Introduction

#### OUR MOST COMPACT USV

The Uni-Mini USV is a compact and lightweight vehicle which can be used in the shallow area survey. With a facility to integrate with the choice of transducer and GPS system. The Uni-Mini can perform all the survey tasks with minimal effort and manpower. The features enable the user to perform all hydrographic survey operations from land with minimal to low risk levels.

### 2. Features

- Two person transportable.
- 4 hours (Swappable batteries).
- Autonomous and remote-control operation.
- Ability to integrate dual/single antenna-based GPS system.
- MiniPilot Autonomous system.
- Front facing camera.



## UNI-MINI

Unmanned Surface Vessel



### 3. Specifications

Length	1.675 m
Beam	0.784 m
Weight	65Kgs
Battery Endurance	4 hours (Swappable batteries)
Motor	2 X brushless DC thrusters
Hull Material	Carbon Fibre
Steering	Differential
Ground Control Unit	900MHz (433MHz using Futaba controller)
Remote antenna	Omni directional
Remote range	2 Kms (Line of sight)
GPS	Any survey grade GPS with NMEA output
Batteries used	1 X 24V 50Ah Li-ion battery
Speed	3-5 Knots
Communication	Wifi – Radio, 4G is optional
Optional Features	<ul style="list-style-type: none"><li>• Survey software integration. (Quincy/Hypack)</li><li>• Uni-Mini is compatible with all major industry standard products subject to dimensions and weight constraints.</li><li>• Additional cameras can be added based on requirement</li></ul>

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





## UNI-PACT

Unmanned Surface Vessel



### 1. Introduction

#### A COMPACT, VERSATILE USV

The Uni-Pact, has been developed to complement larger survey vessels used for survey and support tasks where a smaller vehicle is better suited to missions, offering efficient bathymetry from an unmanned platform. Made of asymmetric tough moulded polyethylene catamaran hull and an alloy deck, the Uni-Pact is incredibly stable and versatile.



## UNI-PACT

Unmanned Surface Vessel



### 2. Features

- › Fully integrated and calibrated USV survey solution
- › Can be controlled manually or to follow pre-programmed routes that can be updated at any point through an easy PC based GUI
- › Reconfigurable payload pod allows for mounting of sonar or other sensors
- › Survey PC independent of Uni-Pact autopilot and control PC
- › Survey software agnostic, capable of use with Hypack, QINSy or Eiva etc

### 3. Specifications

Length	3 m
Beam	1.6 m
Draft	0.45 m
Weight	412 Kgs
Endurance	8 hours
Propulsion	1 x 24VDC Electric engines (Torqeedo Cruise 2.0RS)
Remote Control	M.A.P Autopilot system
Data Telemetry	4G and Wi-Fi Radio
Batteries used	1 X 13.25V / 180Ah Li-ion battery
Speed	3-5 Knots
Optional Features	<ul style="list-style-type: none"><li>• Commercial payloads used to date include MBES, SBES, SBP, Hydropact pipetracker, FIGS CP system, Norbit iLiDAR</li><li>• Can be configured with an add-on Sensor Raft</li><li>• Additional cameras can be added based on requirement</li></ul>

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



## UNI-MAX

Unmanned Surface Vessel



### 1. Introduction

#### A HYBRID USV

Unique Group has developed the Uni-Max 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.

The Uni-Max will feature 2 Torqeedo Cruise 6.0RS Engines with Hydraulic Steering. Addition of a Hybrid Power system (generator with diesel tank and solar PV cells) for increased endurance, a mesh radio for a more robust data link and increased operational range.

### 2. Features

- > Front facing 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



## UNI-MAX

Unmanned Surface Vessel



### 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 & canopy.
Sensor Deployment	1 X Actuator based 1 X manually operated payload deployment
Optional Features	<ul style="list-style-type: none"><li>• Uni-Max is compatible with all major industry standard products subject to dimensions and weight constraints.</li><li>• Can be configured with Norbit iLiDAR</li><li>• Additional cameras can be added based on requirement</li></ul>

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



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