

USV SeaCAT



Sea State 6 Navigation



ROV & UAV Deployment



Endurance up to 8 days



500 kg Payload



Transportable in a 20' container



SUBSEA TECH
Marine and Underwater Technologies

SeaCAT USV is a catamaran-type unmanned surface vehicle designed for remotely operated or autonomous inspection and survey missions on offshore installations. It offers an innovative multi-drone platform capable of deploying an inspection-class ROV as well as a UAV, enabling underwater and aerial inspections through a single control interface.

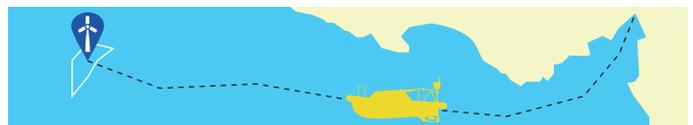
The SeaCAT features an aluminium hull complemented by lateral floats, providing excellent seakeeping capabilities. The entire system is fully modular and fits into a 20-foot container to facilitate transport and optimize mobilization and demobilization costs.

With no operator onboard, SeaCAT enables up to 85% operational cost savings and reduces CO emissions by more than tenfold compared to conventional vessels, offering a safe, clean and cost-efficient solution for offshore infrastructure inspection and maintenance.



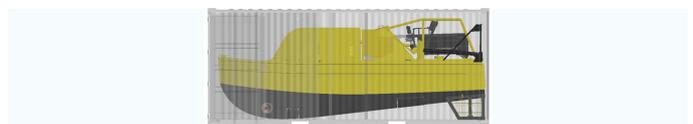
MULTI-DRONE SYSTEM

SeaCAT allows the control of an USV, an ROV and a UAV from a single interface for comprehensive inspection of offshore structures above and below the water surface.



POWER & ENDURANCE

SeaCAT is powered by two electric Aziprop pods supplied by a 12 kW diesel generator, enabling a maximum speed of 6 knots, operation up to sea state 6, and an endurance of up to 8 days.



TRANSPORTABILITY

The entire multi-drone system is designed to be transported in a 20-foot container, enabling fast, easy and cost-effective mobilization to offshore wind farms and oil & gas fields worldwide.

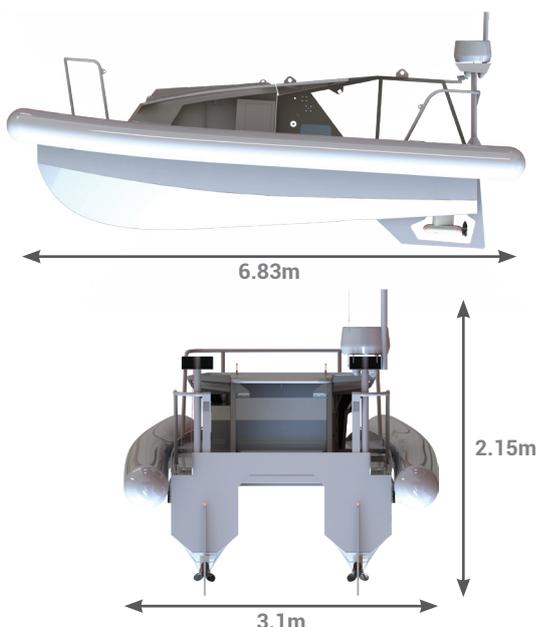
TECHNICAL SPECIFICATIONS

MAIN CHARACTERISTICS

Dimensions	L 6.83 m x W 3.10 m x H 2.15 m (inflated) L 5.78 m x W 2.15 m x H 2.15 m (deflated)
Weight	1.2 t excluding payload and fuel
Payload	500 kg
Maximum speed	6 knots
Draft	0.73 m lightship 0.90 m at maximum payload
Maximum sea state	4 (in operation), 6 (in transit)

CONTROL SYSTEM

Operator interface	Laptop PC + joystick console with automatic navigation modes
Communication	WiFi 2.4 GHz – range up to 3 km Options: 4G / 5G, Starlink
Navigation sensors	2 Full HD color cameras, DGPS (RTK optional), Gyrocompass, Radar, AIS, INS
Sensor display	Video and instrument display via PC-to-PC connection (remote desktop)
Position display	Position and trajectory displayed on digital charts within the automatic navigation software
Onboard electronics	Embedded Intel i7 PC
Sensor data interfaces	Serial, USB, Ethernet, others on request
Automatic navigation	Trajectory tracking, dynamic positioning, automatic return to base, pre-programmed missions



PROPULSION & POWER SUPPLY

Propulsion	Two unidirectional electric Aziprop pods
Generator	12 kW diesel generator with two 200-liter tanks providing up to 8 days of endurance

MAINTENANCE & WARRANTY

Documentation	Operator and maintenance manuals
Warranty	1 year, parts and labor, excluding transport costs
Technical support	< 8 hours (business days)

PACKAGING

Transport	Fits into a 20' container
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OPTIONS

For your missions, SeaCAT can be equipped with a wide range of sensors and equipment.

OUR SUGGESTIONS

ROV module	LARS (Launch And Recovery System) for ROV deployment and recovery Electric winch – capacity up to 600 m of umbilical (Ø 9.5 mm) Tilting cradle system with hydraulic actuator Dedicated ROV support frame
UAV (drone)	Tethered UAV with recovery winch Standard cable: 40 m
Instrument towing	Up to 4 instrumentation wells for sensor deployment Deployment via hydraulic actuator or rack system
Single-beam bathymetry	Airmar Smart SS510 echosounder or equivalent
Multibeam bathymetry	Norbit iWBMS
Side-scan sonar	Klein, Edgetech
Imaging sonar	Blueprint Oculus
3D LiDAR	Norbit iLiDAR or VLP-16 "Puck"
Current profiler	Innomar, Tritech, others
Sub-bottom profiler	Model on request

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