

USV SeaCAT



Range 5 km



ROV and UAV launching



Up to 8 day autonomy



Payload 500 kg
Fits inside a 20' container



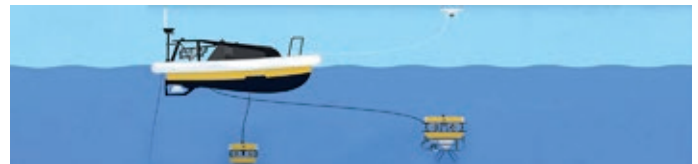
SUBSEA TECH
Marine and Underwater Technologies

The SeaCAT USV

is a sea going catamaran type drone designed for automatic or remotely controlled inspection and survey missions on offshore infrastructures. SeaCAT offers an innovative multi-drone platform by supporting an ROV and a UAV to carry out inspection below and above water with a single control interface.

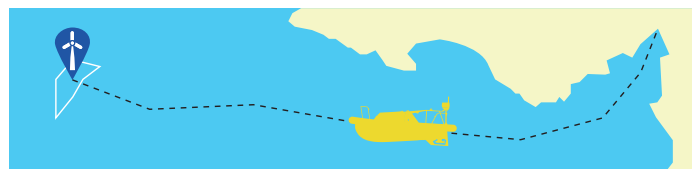
Its aluminium fabrication completed by inflatable lateral tubes makes it perfectly shockproof while lightweight and harmless for the inspected infrastructures. The overall system fits inside a 20' container to ease transport and reduce mob/demob cost.

With no operator at sea, saving up to 85% operational cost and reducing up to 50 times CO₂ emissions compared to conventional spreads, SeaCAT offers a safe, clean and affordable solution for offshore IMR campaigns.



MULTI-DRONE SYSTEM

SeaCAT's cutting edge technology allows controlling a combination of USV, ROV and UAV from a single interface for the inspection of offshore structures below and above water



POWER AND ENDURANCE

SeaCAT is powered by a 12 kW Kubota engine driving 2 high torque propellers that allow reaching the speed of 6 knots and navigating up to sea state 6 with an autonomy of up to 8 days



TURNKEY SPREAD

The overall multi-drone system fits inside a 20' container for fast, cost effective and easy mob/demob to offshore wind farms and oil fields all around the globe

TECHNICAL SPECIFICATIONS

MAIN FEATURES

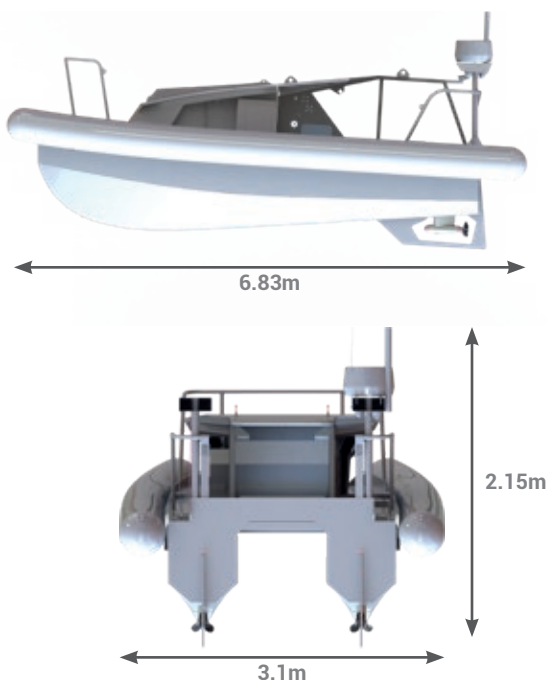
| | |
|-----------------------|---|
| Dimensions | L 6.83m x b 3.1m x H 2.15m (inflated) L 5.78m x b 2.15m x H 2.15m (deflated) |
| Weight | 1,075 kg without payload |
| Payload | 500 kg |
| Max. speed | 6 knots |
| Draft | 0.73m (empty), 0.90m with max payload |
| Max. sea state | 4 (operation), 6 (transit) |

SYSTEM CONTROL

| | |
|-------------------------------|--|
| Operator interface | Laptop PC + joystick box with auto navigation modes |
| Communication | 2x 5GHz WiFi antennas range 5km + 2x back-up UHF antennas (900/1200 MHz and 430 MHz) |
| Navigation sensors | 2 full HD color video cameras, DGPS (RTK in option), Gyrocompass, Radar, AIS, INS |
| Sensor data display | Sensor display on control PC |
| Position display | Position and trajectory display on all types of maps |
| On board electronics | 19" 2U Rack-mount Intel Core based CPU |
| Sensor data interfaces | Serial, USB, Ethernet, others on demand |
| Auto navigation | Automated navigation software with waypoint navigation, DP mode, etc. |

PACKAGING

| | |
|------------------|----------------------------|
| Transport | Fit inside a 20' container |
|------------------|----------------------------|



PROPULSION AND POWER SUPPLY

| | |
|------------------|---|
| Thrusters | 2 unidirectional Aziprop electrical thrusters |
| Generator | 12 kW diesel generator with 2x 200L tanks for up to 8 days autonomy |

MAINTENANCE AND WARRANTY

| | |
|----------------------|--|
| Documentation | Operator/maintenance manual |
| Warranty | 1 year, man-hours and parts, excl. transport costs |

OPTIONS

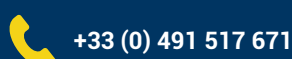
| | |
|-----------------------------------|---|
| ROV module | Electrical winch with spooling system - capacity 600m tether (9.5mm diam.) and cooling nozzles ROV tilting basket for launch/recovery Tortuga ROV |
| UAV (drone) | Captive UAV (e.g.: DJI Matrice) with recovery winch - tether capacity 40m |
| Single beam bathymetry | Airmar Smart SS510 echosounder, 235kHz or equivalent |
| Multibeam bathymetry sonar | Norbit WBMS echosounder or equivalent |
| Side scan sonar | Model on demand |
| Imaging sonar | BluePrint Oculus sonars or equivalent |
| 3D LIDAR | Norbit iLiDAR or VLP-16 «PUCK» or equivalent |
| Current profiling | ADCP model on demand |
| Sub-Bottom Profiler | Model on demand |



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