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 plateform 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  $CO_2$  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

1-1		豐
11/17		X
COLUMN TWO IS NOT		- 20-

### **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	5 knots
Draught	0.73m (empty), 0.90m with max pay- load
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 electro- nics	Embedded PC adapted to the appli- cation
Sensor data inter- faces	Serial, USB, Ethernet, others on demand
Auto navigation	Automated navigation software with waypoint navigation, DP mode, etc.





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 equiva- lent		
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	Model on demand		

### PACKAGING

Transport

Profiler

Fit inside a 20' container



# WWW.SUBSEA-TECH.COM

St.sales@subsea-tech.com

+33 (0) 491 517 671 C



SUBSEA TECH SAS - 167 Plage de l'Estaque, 13016 Marseille, FRANCE - Capital : 60 000 € - 485 282 370 RCS MARSEILLE