

USV AirCAT 270 / 400



270 version : 2.75 m
400 version : 3.96 m



270 version : 75 kg
400 version : 86 kg



Endurance up to 12 hours



Payload up to 100 kg (270)
/150 kg (400)



SUBSEA TECH

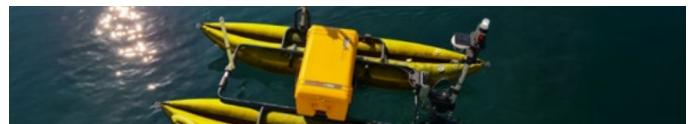
Marine and Underwater Technologies

AirCAT is a unique, ultra-compact instrumented surface drone, designed to be transported by aircraft as checked luggage and rapidly deployed anywhere in the world.

Its inflatable catamaran architecture combines two hulls with a central payload deck, providing exceptional stability and optimal sensor integration.

With a weight of only 75 kg for the 270 version and 86 kg for the 400 version, excluding payload and batteries, AirCAT can carry up to 100 kg and 150 kg of payload respectively, achieving an excellent payload-to-weight ratio of 1.33 (270) and 1.74 (400). Its double-tube, ultra-resistant PVC structure ensures optimal buoyancy and enhanced safety, even in the event of a puncture.

Compact and modular, AirCAT is easily transported in one bag and two flight-compatible cases. Once deployed, it offers excellent stability on inland waters and at sea, operating safely up to Sea State 3.



ONBOARD ELECTRONICS

Thanks to its onboard PC and open electronic architecture, AirCAT is a versatile instrumentation platform capable of integrating a wide range of sensors (single or multibeam echosounders, side-scan sonars, ADCPs, multiparameter probes, LiDAR, etc.), with real-time data visualization.



BATTERIES

AirCAT is delivered without batteries to meet the logistical constraints of international operations. It can accommodate up to 4 battery packs, providing up to 12 hours of endurance depending on battery technology and mission profile. Its electronics are compatible with LiFePO₄, lithium-ion, and lead-acid batteries, enabling local sourcing.



NAVIGATION

AirCAT features an automatic navigation software enabling trajectory tracking, dynamic positioning, and automatic return-to-base. The system is complemented by a 360° Full HD camera on a rotating turret, navigation lights, and optional AIS and obstacle avoidance functions.

TECHNICAL SPECIFICATIONS

GENERAL

Dimensions	270 version: L 2.75 m × W 1.45 m × H 1.25 m (excluding antenna) 400 version: L 3.96 m × W 1.98 m × H 1.25 m (excluding antenna)
Weight	75 kg (270), 86 kg (400), excluding payload and batteries
Payload	100 kg (270), 150 kg (400)
Speed	6 knots
Draft	30 cm in operation, 10 cm with motor lifted
Sea state	Sea State 3 in operation, Sea State 4 in transit

SYSTEM CONTROL

Piloting	Laptop PC + dual joystick control box (2 × 4 functions) 
Communication	Remote control via WiFi (2 km range), 2.4 GHz radio link as backup (300 m range)
Navigation	Full HD camera, navigation lights, INS + DGPS (RTK optional)
Sensor display	Video and instrument data via PC-to-PC connection (remote desktop)
Position display	Real-time position and trajectory displayed on charts within the automatic navigation software
Onboard electronics	Intel Core i7 PC with 5V / 12V / 24V power supply, housed in an IP67 waterproof case
Automatic navigation	Trajectory tracking, dynamic positioning, automatic return-to-base, pre-programmed missions

PACKAGING

Transport	1 bag 110 x 60 x 40 cm, 32kg 1 case 80 x 60 x 40cm, 29kg 1 case 65 x 45 x 35 cm, 21kg 
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PROPULSION & POWER

Thrusters	Electric outboard motor with azimuth control (12 kg thrust / 24 VDC @ 1000 W)
Endurance	Up to 12 hours depending on battery configuration and usage

MAINTENANCE & WARRANTY

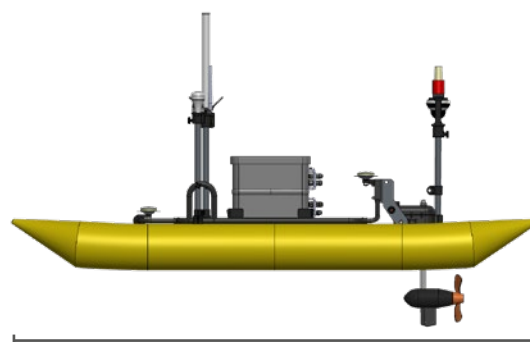
Documentation	Operator manual
Maintenance	No specific maintenance required
Garantie	1-year parts and labor (excluding transport costs), extension available on request
Technical support	Response: < 8h (business days) Resolution: < 48h average

OPTIONS

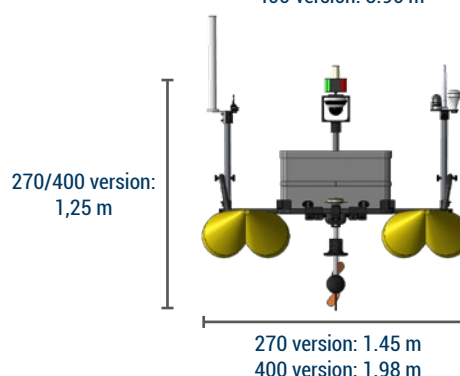
For your missions, AirCAT can integrate a wide range of sensors and equipment.

OUR SUGGESTIONS :

Single-beam bathymetry	Airmar Smart SS510, 200 kHz, range 0.4–200 m, 1 cm resolution
Multibeam bathymetry	iWMBS
Side-scan sonar	Starfish 450/990kHz
Imaging sonar	BluePrint Oculus Série M
3D LiDAR scanning	VLP-16 «PUCK»
Current profiling	Sontek or Nortek ADCP
Batteries	Supply on request
Winch	Motorized winch with powered cable or Dyneema line
Support contract	Annual maintenance contract with free software updates
Communication	4G/5G, Starlink



270 version: 2.75 m
400 version: 3.96 m



270/400 version:
1,25 m

270 version: 1.45 m
400 version: 1.98 m

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