

USV

# AirCAT 270 / 400



270 Version : 2,74 m  
400 Version : 4 m



270 Version : 42 kg  
400 Version : 53 kg



Endurance 12 hours



Payload capacity 150 kg



**SUBSEA TECH**

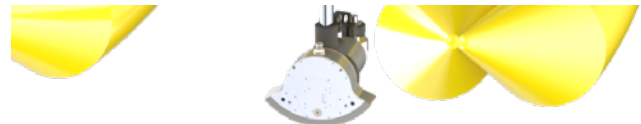
Marine and Underwater Technologies

**AirCAT** is a surface drone designed as an inflatable catamaran, capable of operating in either teleoperated or fully autonomous modes.

Ultralight, it weighs only 42 kg (270 Version) or 53 kg (400 Version) and can carry up to 180 kg, achieving a payload-to-weight ratio of over 300%. Its ultra-durable PVC structure with double inflatable tubes ensures optimal buoyancy, even in the event of a puncture in one of the tubes.

Easily transportable, AirCAT can be packed into a bag and two cases with dimensions that comply with the standards for checked luggage on airplanes. Once deployed, it measures 2.74 m in length and 1.54 m in width (standard version) or 4 m in length (400 Version), offering excellent stability on both inland and coastal waters up to Beaufort 3.

Its modular LiFePO4 battery compartment allows adjustable endurance ranging from 4 to 12 hours.



## ONBOARD ELECTRONICS

Equipped with an onboard PC, an open architecture, and a high payload capacity, AirCAT can integrate a variety of sensors (single/multibeam echosounders, side-scan sonars, sediment profilers, ADCPs, multiparameter probes, Lidar, etc.) with real-time data visualization capabilities.



## BATTERIES

AirCAT is equipped as standard with a 100 Ah 24 V LiFePO4 battery, providing an average endurance of 4 hours. This can be doubled (8 hours) or even tripled (12 hours) with additional batteries, thanks to its high payload capacity.



## NAVIGATION

AirCAT features an HD color camera mounted on a 360° turret and navigation lights. Optional equipment includes an AIS system and an obstacle avoidance function. Its autonomous navigation software supports point-to-point routing, waypoint following, station-keeping, and return-to-base functionality.

# TECHNICAL SPECIFICATIONS

## GENERAL

<b>Control</b>	Remote control via 5GHz WiFi (2.4GHz radio link as backup)
<b>Dimensions</b>	270 Version: L 2.74 m x W 1.54 m x H 1.25 m (excluding antenna) 400 Version: L 4.0 m x W 1.98 m x H 1.25 m (excluding antenna)
<b>Weight</b>	42 kg without payload
<b>Payload Capacity</b>	150 kg
<b>Speed</b>	6 knots
<b>Draft</b>	10 cm with motor raised, 30 cm with motor
<b>Max. Wave Height</b>	Sea 3, current 5 knots
<b>Current Handling</b>	> 1m/s

## SYSTEM CONTROL

<b>Pilot</b>	Laptop + joystick controller
<b>Communication</b>	5GHz high-speed WiFi with range > 3 km, 2.4GHz radio link (backup)
<b>Navigation</b>	HD color camera, Position lights, DGPS (RTK optional)
<b>Sensor Display</b>	Video/sonar images displayed on control PC
<b>Position Display</b>	Position and trajectory displayed on automatic navigation software
<b>Onboard Electronics</b>	Intel Core i7 PC + 5V/12V/24V power supply, in IP67 waterproof case
<b>Data Interface</b>	Serial, USB, Ethernet, others on request
<b>Automatic Navigation</b>	Automatic navigation software (pre-programmed trajectories, etc.)

## PACKAGING

<b>Transport</b>	1 bag 119 x 38 x 43 cm 1 case 75.3 x 55.3 x 38 cm 1 case 65 x 43 x 35 cm
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## PROPULSION AND ENERGY

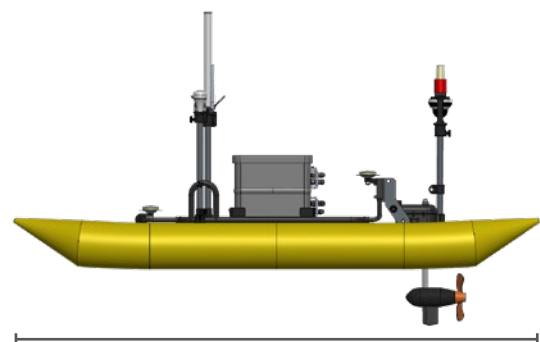
<b>Thrusters</b>	1 electric outboard motor (12 kg / 24 VDC @ 1100W)
<b>Batteries</b>	Li-Ion accumulators, 4-12h of autonomy, charge level displayed on control PC, easily interchangeable
<b>Power Supply</b>	AC 110-220V for battery recharging

## SERVICE AND WARRANTY

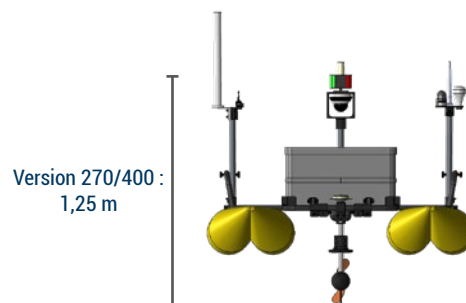
<b>Documentation</b>	Operator manual in paper and digital formats
<b>Maintenance</b>	No specific maintenance required
<b>Warranty</b>	1 year parts and labor excluding shipping costs

## OPTIONS

<b>Single-beam Bathymetry</b>	Airmar Smart SS510 sonar, 235kHz, range 0.5-100m, resolution 3cm
<b>Multibeam Bathymetry</b>	Norbit WMBS + INS + GPS RTK sonar
<b>Side-scan Sonar</b>	Starfish 450kHz/990kHz
<b>Imaging Sonar</b>	Teledyne BlueView M Series or BluePrint Oculus
<b>3D Lidar</b>	Norbit iLiDAR or VLP-16 "PUCK"
<b>Current Meter</b>	Sontek, Flowquest, or Teledyne RDI ADCP
<b>Batteries</b>	Additional spare battery packs
<b>Hull Color</b>	Yellow standard, other colors on request
<b>Support Contract</b>	Annual maintenance contract with free updates
<b>Other Sensors</b>	Available on request



Version 270 : 2,74 m  
Version 400 : 4,00 m





Version 270/400 :  
1,25 m

Version 270 : 1,54 m  
Version 400 : 1,98 m

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