

Catarob^{USV}-ATS



Range 1km



2 electrical motors



4h autonomy



Payload 15kg



SUBSEA TECH
Marine and Underwater Technologies

The Catarob-ATS USV

is an Unmanned Surface Vehicle, catamaran type, with tele-operated and/or autonomous modes. Ultra portable (50 kg), it is the perfect platform for all kinds of investigations in shallow waters, above and below the surface.

Thanks to its open architecture and its high speed PC to PC communication, all kinds of sensors running on Windows can be easily integrated to the Catarob. The shore control PC allows real time display and control of navigation and onboard sensors.



ON BOARD ELECTRONICS

Thanks to the open architecture of the on board PC, Catarob-ATS can embed various sensors such as sonars, echosounders and ADCP.



BATTERIES

Two LI-Ion accumulators integrated in the hulls give a full energy autonomy to Catarob-ATS, allowing up to 4h missions in the most remote areas.



NAVIGATION

Catarob-ATS is equipped with a color full HD video camera, 2 outboard electrical motors, high speed Wifi communication up to 1km range and automatic navigation mode.

TECHNICAL SPECIFICATIONS

MAIN FEATURES

Control	Remote control through Wifi 5GHz (back-up radio link 2,4GHz)
Dimensions	L 1,8m x b1m x H 1,2m
Weight	50kg without payload
Payload	15kg
Max. speed	4 knots
Draft	10cm, 17cm with 15kg payload
Max. wave height	0,3m
Max.current speed	2 knots

SYSTEM CONTROL

Operator interface	Laptop PC + joystick box + auto navigation modes
Communication	WiFi 5GHz range > 1km, back-up radio link 2,4GHz
Navigation sensors	Full HD color video camera, DGPS (RTK in option)
Sensor data display	Video/sonar images display on control PC
Position display	Position and trajectory display on all types of maps
On board electronics	PC104 + 5V/12V/24V power, in IP67 case
Sensor data interfaces	Serial, USB, Ethernet, others on demand
Auto navigation	Automated navigation software (pre-programmed trajectories)

PACKAGING

Transport	All in one wooden crate (L 195 cm x w 60 cm x H 55 cm) or pallet
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PROPULSION AND POWER SUPPLY

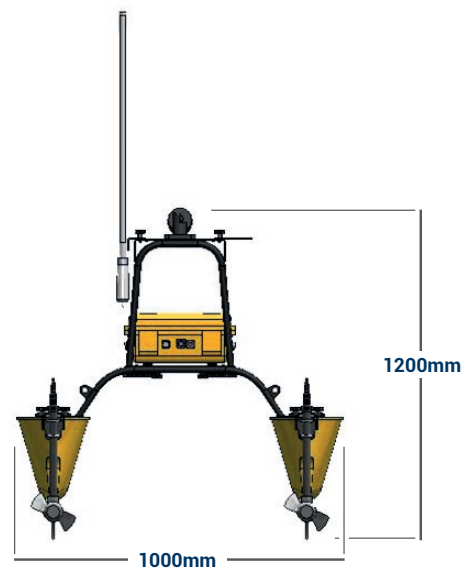
Thrusters	2 outboard electrical motors (2x8kg / 12Vdc@2x120W)
Batteries	Li-Ion Accumulators, 4h autonomy, charge level displayed on control PC, easily swappable
Power supply	AC 110-220V to recharge the batteries

MAINTENANCE AND WARRANTY

Documentation	Operator manual, soft and hard versions
Maintenance	No specific maintenance required
Warranty	1 year, man-hours and parts, excl. transport costs

OPTIONS

Single beam bathymetry	Airmar Smart SS510 echosounder, 235kHz, range 0,5-100m, resolution 3cm
Multibeam bathymetry	Norbit WBMS echosounder + INS + GPS RTK + SVP + QUINSy
Side scan sonar	Starfish 450kHz/990kHz
Imaging sonar	Teledyne BlueView M series or BluePrint Oculus
3D LIDAR	Norbit iLiDAR or VLP-16 «PUCK»
Current profiling	ADCP Sontek, Flowquest or Teledyne RDI
Batteries	Additional battery packs to increase autonomy
Hull colors	Yellow as standard, others colors on demand
Support contract	Annual maintenance contract, including software updates
Other sensors	On demand



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