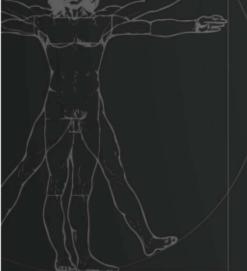


SEASTICK



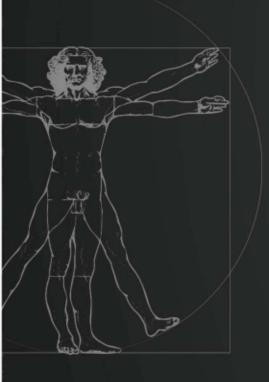




SEA the FUTURE



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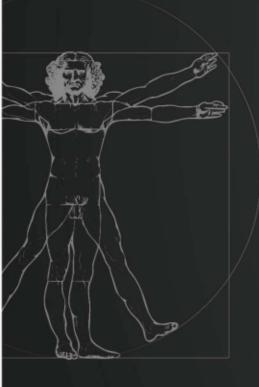
A.U.V.ino

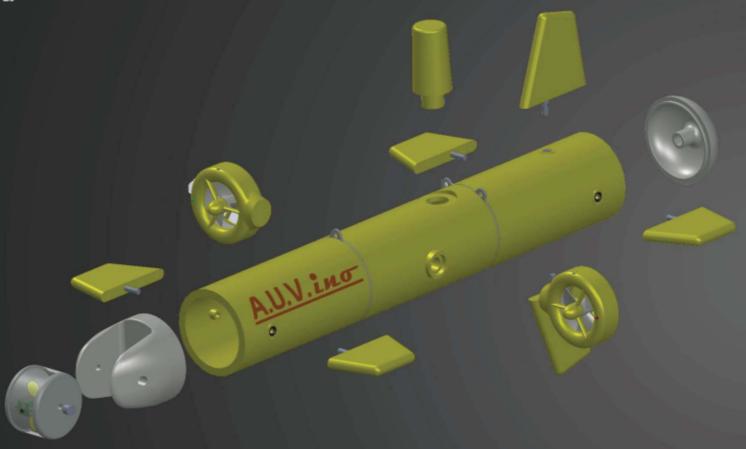




One - man operation Simplified deployment / retrieval High - res frontal camera User - programmable and expandable







Hull lenght: 1200 mm (47 in) / Hull diameter: 160 mm (6,3 in)

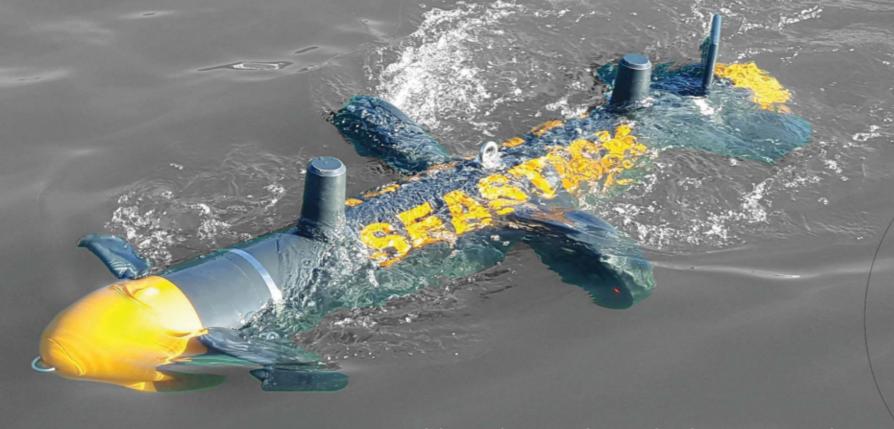
Weight in air: 24 kg (52,9 lbs)

Buoyancy: + 0,5 kg (+1,1 lbs)

Maximum operating depth: 100 m (330 ft)

Battery and autonomy: 6 hours Velocity range: 1,03 m/s (2 knots)

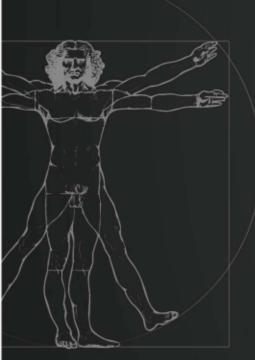
SEASTICK 300

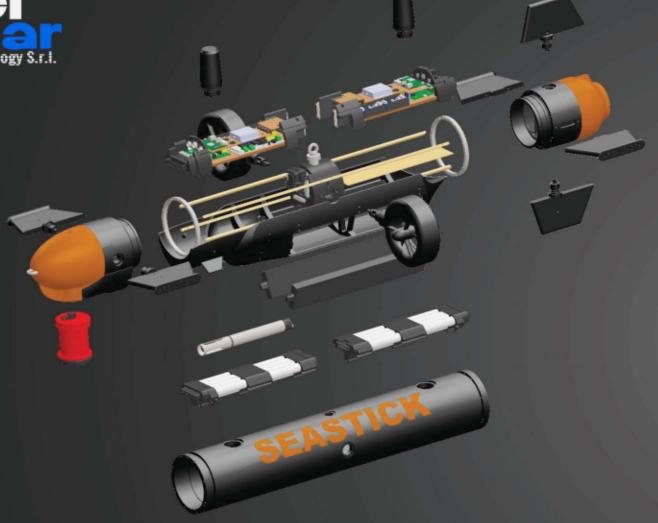




Hovering and vertical manouvering
Automatic roll and pitch stabilization
Low magnetic signature
Customizable payload
Minimal maintenance
Autonomous operation at 300 m depth







Overall dimensions: $1900 \times 810 \times 500 \text{ mm} (75 \times 32 \times 20 \text{ in})$

Weight in air: 82 kg (180 lbs) Buoyancy: + 0,3 kg (+0,66 lbs)

Maximum operating depth: 300 m (1000 ft) Battery and autonomy: 1,2 KWh - 10 hours

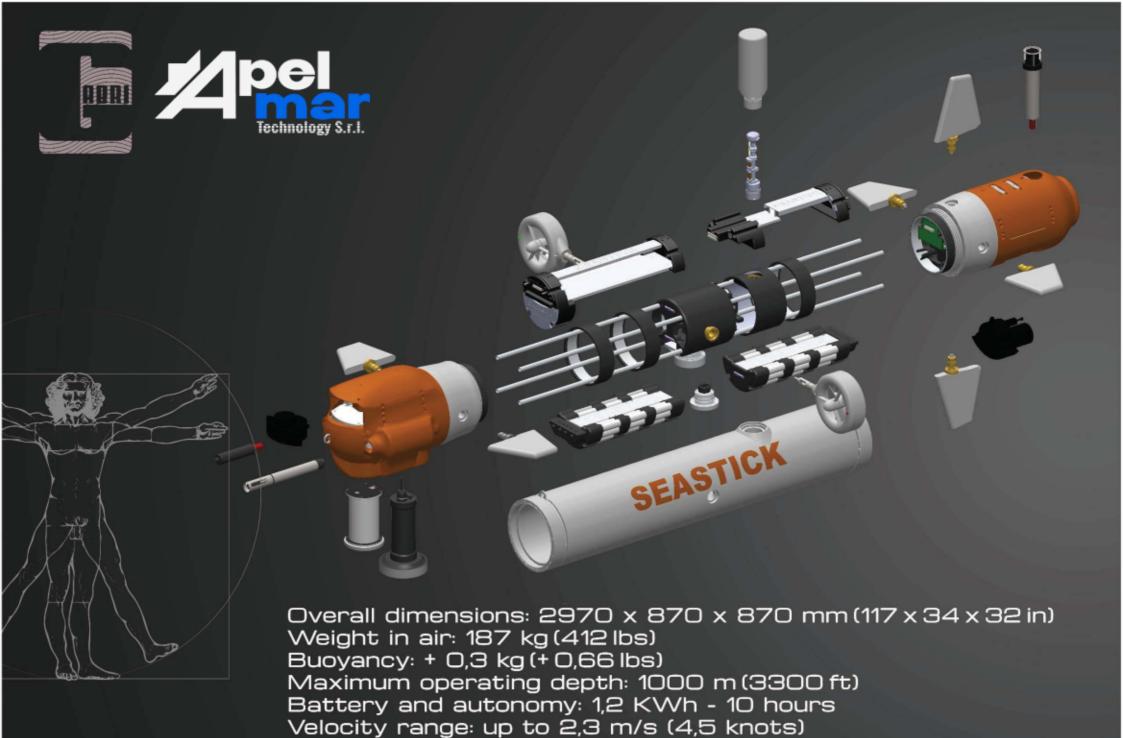
Velocity range: 1,03 to 2,06 m/s (2 to 4 knots)

SEASTICK 1000



Apel Technology S.r.i.

Holonomic movement
Multiple, reconfigurable payloads
Adaptive autonomous operation
Long range mobile sensor platform
Extreme mapping capabilities
Expanded comms array







SEASTICK SERIES

STANDARD AND OPTIONAL EQUIPMENT

EQUIPMENT	AUVino	300	1000
Polipropylene PP body 2 Magnetic induction brushless motors 2 Battery packs NIMH Onboard electronics GPS Router: wireless high power communication device (wi-fi 2.4 GHz) standard Deck control unit with radio link Dual low maintenance propellers Pressure sensor Leakage sensor IMU INS Depth sensor	on	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
MAPPING DEVICES			
Range pinger altimeter Multibeam sonar Interferometric sonar Interferometric synthetic aperture sonar Forward looking sonar Sub bottom profiler Sidescan interferometric sonar Sidescan sonar (entry level)	\	>00000 o	×000000





SEASTICK SERIES

STANDARD AND OPTIONAL EQUIPMENT

SENSORS AND COMMUNICATION	AUVino	300	1000
Water samplers Doppler Velocity Log Hydrophone USBL Acoustic modem SVP sensor Obstacle avoidance sonar/ Echo sounder HD camera - tilt +/- 90 Led illuminator for HD camera Satellite communications system - Iridium Laser pipeline profiling system CTD probe AIS (Automatic Identification System) Customer chosen sensor	0000000000000	0>000>00000>00	0>000>>0000>00
VEHICLE RECOVERY ACCESSORIES	3		
Recovery radio beacon Flashing recovery light	0	0	0
TRAINING			
3 Days training (2 days in office and 1 day in water On line tutorial	0	0	0

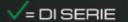




SEASTICK SERIES

STANDARD AND OPTIONAL EQUIPMENT

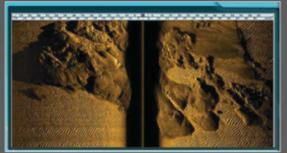
ACCESSORIES	AUVino	300	1000
Transport cart Maintenance cart Disassembly kit Additional magnetic key Additional battery pack Battery charger RF modem Router bridge wi-fi high power Coaxial umbilical cable (with reel and slip ring) Ruggedized portable control unit Control pad	00000\0\000	<pre>>0000>0>0></pre>	>0000>0>0>
SOFTWARE			
Integration software between for optional sensors Customized software for special use /	0	0	0
computer vision Control station Mission planner Autopilot	O > > > > > > > > > >	0 >>>	o /
Open source development kit	0		



SEASTICK CONTROL STATION

The Graphical User Interface (GUI) allows to manually steering the vehicle, control On Board Sensors, program the autopilot missions and dowload data.

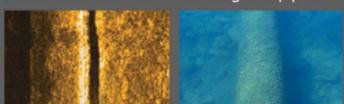




SOFTWARE AND CONNECTIVITY

The SEASTICK Control Station software allows for simple and intuitive management of vehicle maneuvering, sensors settings and alla others functionalities of our AUVs. Control of the vehicle is archieved on the surface via a Wi-Fi radio bridge and via umbilical cable or acoustic modem when underwater. The SEASTICK Mission Planning software enables the user to easily program autonomous missions in terms of routes to follow, waypoint to reach and sensor data to be gathered. This piece of software is specifically designed for immediate and easy deployment of our AUVs. All video, navigational and sensor data from the vehicle can be displayed in real time on the Control Station interface when a communication line can be established, or downloaded via umbilical cable or Wi-Fi at the conclusion of autonomous mission.sens





Sonar scan and video recording of a chain

