

Water Intelligent Remote Control Robot Technical Parameter



The water intelligent remote-control robot is widely used for the rescue of many people falling into the water, such as capsizing accidents of ships at sea, floods, rivers and rapids. It can solve various limitations of traditional rescue equipment. It has the function of navigation trajectory and can track the robot's driving route through the trajectory map. It can be remotely controlled on the shore, and it can be thrown from the shore, ship, plane, bridge and other 20 meters, which is very convenient. It has the function of self-righting, and automatically turns back to the front after rollover. The speed is twice as fast as that of ordinary robots.

It can resist wind and waves, with a wind and wave resistance rating of 2 meters, and can move smoothly in the case of rapids or floods. The robot can tow rubber boats and carry life jackets, life buoys, rescue ropes, medicines and other emergency life-saving materials. There are 8 handles on

both sides of the robot fuselage, and there are 4 sections of pull ropes in the lower section of the fuselage, which can be grabbed by 6-8 drowning people or squatted on the fuselage waiting for rescue. There are voice intercom functions on both sides of the fuselage. You can also load a visual voice image transmission, and you can know the situation ahead through the visual transmission outside the visual range. Adopt jet safety drive, not propeller rotation mode to avoid secondary damage caused by propellers falling into the water. At the same time, it can provide a unique remote-control design.

Features:

Resistant to wind and waves; moving smoothly in rapids or wind and waves, rescuing many people at the same time, light and fast.

Product structure: The structure of the water rescues remote control robot is the upper and lower structure, the upper part is the anti-collision software buoyancy material, the lower hull is a composite material (aramid fiber + glass fiber + carbon fiber), wear-resistant, non-inflatable structure, there is no risk of air leakage.

Launch method: with any posture can automatically correct; water rescue remote control robot can be thrown from the boat, shore, or the plane, even if the rollover, can automatically and quickly adjust back to the front

Technical parameter:

- ★1、 Robot size : $\leq 135 * 45 * 36\text{cm}$
- ★2. Include battery weight (kg) $\leq 16\text{kg}$
- ★3. Shell material: aramid fiber
- ★4. Water speed (km / h): $\geq 45\text{km/h}$
- ★5. Remote control distance (m) $\geq 4000\text{m}$
- ★6. Water towing traction weight (kg) ≥ 330
- ★7. Floating power in the water: $\geq 1500\text{N}$
- ★8. Battery quick charging time (minutes) $\leq 60\text{mins}$

- ★9. It has the function of backward and reverse gear and one-key return flight
- ★10. Drive device: culvert injection drive, pump injection diameter : 70mm
- ★11. Battery continuous working time (minutes) ≥ 80mins
- ★12. Flip up and down for upright time (seconds) ≤1s
- ★13.The hull is equipped with eight handles and a buoyancy pull rope, with night strobe lights and a fuselage flagpole.
- ★14.Classification of waterproof: IP67
- ★15. Wind and wave resistance class (m) :2m

Main technical parameters of the product:

product name	Specification	
	Model	L2
	Type	Water intelligent remote control robot
Hydrodynamics	water-tightness	IP67, Prevent self-sinking
	Appearance design technology	Long life, UV resistance, aging resistance, corrosion resistance, the overall ship fluid mechanics; cone type ergonomic design, easy to rescue, and effectively reduce water resistance.
	Accessories	Life hand 8, rope 6, strobe, flagpole, buoyancy rope
	Long * Wide * High	1350mm*420mm*360mm
	Ontology net weight	15 kg
Power supply	Power thrusters	Pump injection channel propeller
	Power of motor	4.5kw
	Power battery	Battery type: Ternary lithium battery DC operating ambient temperature: 0-50°C

		<p>Extreme low temperature:</p> <p>0 ~-10°C Electricity is about 75%</p> <p>-10°C ~ -20°C Electricity is about 60%</p>
	Data cloud platform management	It can manage real-time communication of battery BMS, online detect battery voltage, current, battery temperature, product positioning information, etc., support intelligent terminal to monitor the use status of products, and timely warn of possible abnormal risks
	Battery for BMS management and protection	Over temperature, over charge, over discharge, over current and short circuit protection
	Battery fast charging scheme	Support battery fast charging scheme customization, the fastest in 0.5-1 hour full charge; Conventional charging is about 1 hour;
	Working temperature	0-50°C
	no-load speed	The highest speed on the water 45km/h
	Duration of use	Maximum 80mins;
	Water drag force	330kg
	Floating power in the water	1500N
	Maximum wave resistance grade	Four-level sea state
	Recommended water depth	≥1m
Control technique	Wireless remote control	<p>Communication mode: bidirectional 418HZ spread spectrum technology,</p> <p>Antenna gain: 1dbi</p> <p>Working voltage: 8v</p> <p>Battery: 4000mA</p> <p>Battery charging: micro USB 8v2a</p> <p>Remote control battery working environment: 0°C-50°C</p> <p>Remote control working environment: -10°C-55°C</p>

		Water remote control distance: 3500-5000m
	One-button return flight	GPS, Beidou positioning one-button return, lost return and other functions
	Navigation control	Manual control: forward and backward, left and right steering gear steering;
	Automatic righting	Hydrodynamic design, automatic centering;
Deploy to use	Warning deployment	Can be land water standby deployment, can be water patrol alert;
	Emergency use	The magnetic switch is started with one key, and it can be used when falling into the water.;
	Alarm use	Automatic low battery alarm
	High throw use	Meet the use of 25 meters high throw drop into the water;