



ROBUST

ALPHA ME

robust Lite Weight Intelligent USV

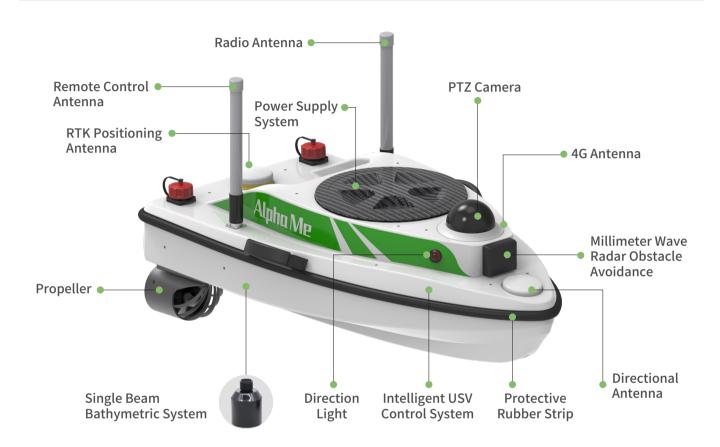
Length 80cm | Weight 15kg | Max 20 knots | 6h Working time





ROBUST Lite Weight Intelligent USV

ROBUST Me is an innovative new USV. With Alpha Surveying's continuous investment in R&D and the application iteration of surveyors and users at home and abroad, it has achieved a comprehensive breakthrough in fluid power, endurance, volume, weight, and intelligence. Making the most useful USV is one of the company's product goals.



Portable



 $80 \times 40 \times 23$ cm, Easily transported by vehicle



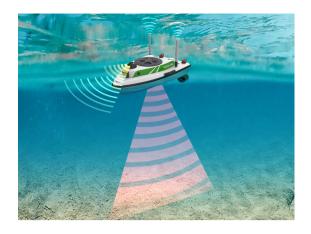
Weigh only 15kg and can be carried by one hand, 12kg without battery



1m long trolley case, convenient for deployment, transfer and business trip



Make it useful





High Speed

Regular version 6m/s (10 knots), high-speed version 10m/s (20 knots)



Ultra-long battery life

One battery can work for 6 hours under speed of 1.5m/s



Automatic obstacle avoidance

40m millimeter-wave radar obstacle avoidance sensing, slowing down and automatically bypassing within 10m



PTZ Camera

Dual-axis PTZ HD camera, optional three-axis 360° camera



Quick release propeller

Specially designed dual-duct high-power propeller, designed for quick on-site disassembly and replacement



Smart Upgrade

Automatic reversing in shallow water, PPK post-processing, online position tracking



Turn in Place

Lightweight and flexible, no turning radius required, can turn around in a narrow environment



Free to expand

55 pre-embedded inserts to support deck, side, stern and bottom expansion

Integrated USV control software



Multifunctional remote control with screen, 5.5-inch high-brightness touch screen, digital and image transmission, remote control 1.5km, radio 2km, Android operating system, built-in integrated USV control software, one software can realize all functions required for water operations such as route planning, parameter setting, hull control, data display, status display and results export; user-defined maps can be imported, and satellite remote sensing image base maps can be loaded after networking; routes are automatically generated, and navigation missions, navigation mission breakpoint continuation, automatic return, and automatic cruise are executed.

Simple operation process



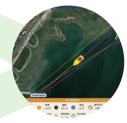
1. Install the battery and antenna



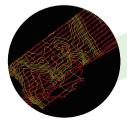
2. USV and RTK setting



3. Plan routes and execute tasks



4. Return data output



5. Result achievement

Professional set

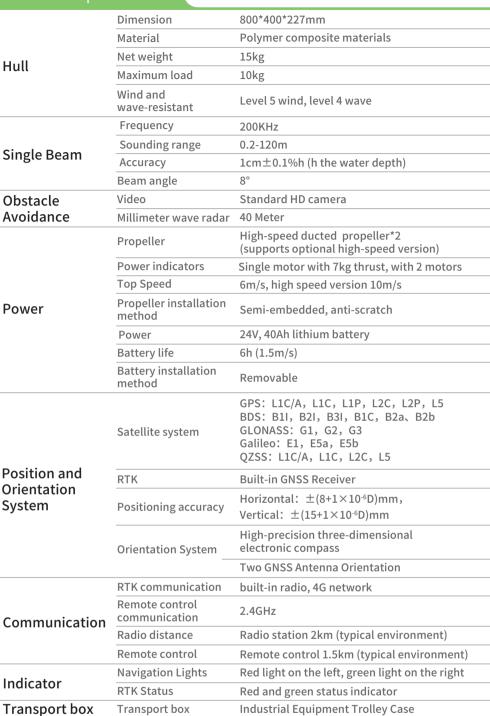
| Hull | $\times 1$ |
|--|------------|
| USV control system | $\times 1$ |
| Propeller (High-speed version can be customized) | ×2 |
| Positioning and navigation system | ×1 |
| HD camera | $\times 1$ |
| Millimeter wave obstacle avoidance radar | ×1 |
| Built-in single beam sonar depth sounder | ×1 |
| Dual joystick Android LCD remote control | ×1 |
| Battery | $\times 1$ |
| Charger | $\times 1$ |
| Communication Antenna | $\times 2$ |
| GNSS Antenna | ×2 |
| Box | $\times 1$ |
| | |

Customization



Supports high-speed version customization; supports camouflage and other hull painting customization; supports deck extensions such as warning lights, loudspeakers, launch pads, flags, first aid kits, stern extensions such as tail plates and unhookers, side extensions such as wing and sonar arrays, bottom extensions such as forward-looking sonar, side-scan sonar, fish finders and underwater cameras.

Technical Specification



^{*}The above technical parameters are for your reference. The company reserves the right to change the design and planning of the product based on the actual product.

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