

SNPilot

The screenshot displays the Survey123 mobile application interface. The top portion shows a map view with a survey area highlighted in orange and blue. The bottom portion shows the 'Survey settings' menu with various options. The 'Configuration settings' option is selected, and the 'Survey settings' menu is open, showing options like 'Configuration settings', 'Data source', 'Base', 'User settings', 'Theme color', and 'Language'. The 'Configuration settings' option is selected, and the 'Survey settings' menu is open, showing options like 'Configuration settings', 'Data source', 'Base', 'User settings', 'Theme color', and 'Language'.

EchoSurvey

The screenshot shows a Windows desktop environment. At the top, a taskbar displays several application icons. Below the taskbar, a terminal window is open, showing a command prompt. A 'Run' dialog box is overlaid on the terminal, with the text 'Run' and 'OK' buttons. Below the dialog box, the terminal window shows the command 'git log' being executed. The output of the command is visible in the terminal window, showing a list of commit hashes and their corresponding messages.

Hull Dimensions	1180 mm × 630 mm × 430 mm (L × W × H)
Side Wings	Customized side wings for enhanced stability
Material	Nano carbon fiber polymer composite + advanced composite materials
Wind & Wave Resistance	Sea state: Wind level 3, Wave level 2
Moon Pool	24 cm
Payload Compatibility	Bathymetric sonar, ADCP / water quality monitoring / sampling / sub-bottom profiling / side scan / multibeam
Waterproof & Dustproof	IP67
Draft	10 cm
Video System	360° HD video surveillance
Obstacle Detection Range	0.2 – 40 m
Obstacle Detection FOV	Pitch × Azimuth: 14° × 112°, up to 64 targets tracking
Protection Design	Replaceable anti-collision strips, double-layer anti-sinking hull design
Communication	Radio, network & CORS
Radio Protocols	SOUTH, TRIMTALK450S, TRIMMARK I, TRANSOT, HI-TARGET, CHC, SATEL
SIM Card Slot	Supports eSIM and Nano SIM
Onboard Storage	128 GB internal storage

Display	10.1-inch industrial sunlight-readable HD display
Communication Range	2.5 km (radio), unlimited via 4G
Operating Endurance	5 hours
Control Interface	2× Joysticks, 7× Buttons, 4× Switches
Data Storage	Multi-channel Storage (Remote Controller, Vessel, and Server)

Depth Range	0.15 - 100 m
Accuracy	±1 cm + 0.1% h (h = water depth)
Resolution	1 cm
Max Sampling Rate	50 Hz
Operating Frequency	200 kHz
Beam Angle	5°
Sound Velocity Correction	Automatic sound speed sensor
Sound Velocity Range	1350 - 1700 m/s
Main Unit Weight	1 kg
Depth Rating	50m

Propulsion Type	Electric drive
Motor Power	1100 W per motor
Battery Type	33 V / 50 Ah high-performance ternary lithium battery
Power Supply	Single battery system
Endurance	6 h @ 2 m/s (single battery, extended range optional)
Motor Type	High-efficiency, long-life brushless ducted motor
Steering Type	Servo-free differential steering with reverse capability
Motor Installation	Integrated ducted motor design with waterproof weed guard
Power Supply	Single battery supply
Maximum Speed	7 m/s

SNpilot	USV Control & Data Collection
EchoSurvey	PC Data Post-processing Software

[f](#)
[X](#)
[v](#)
[i](#)
[in](#)
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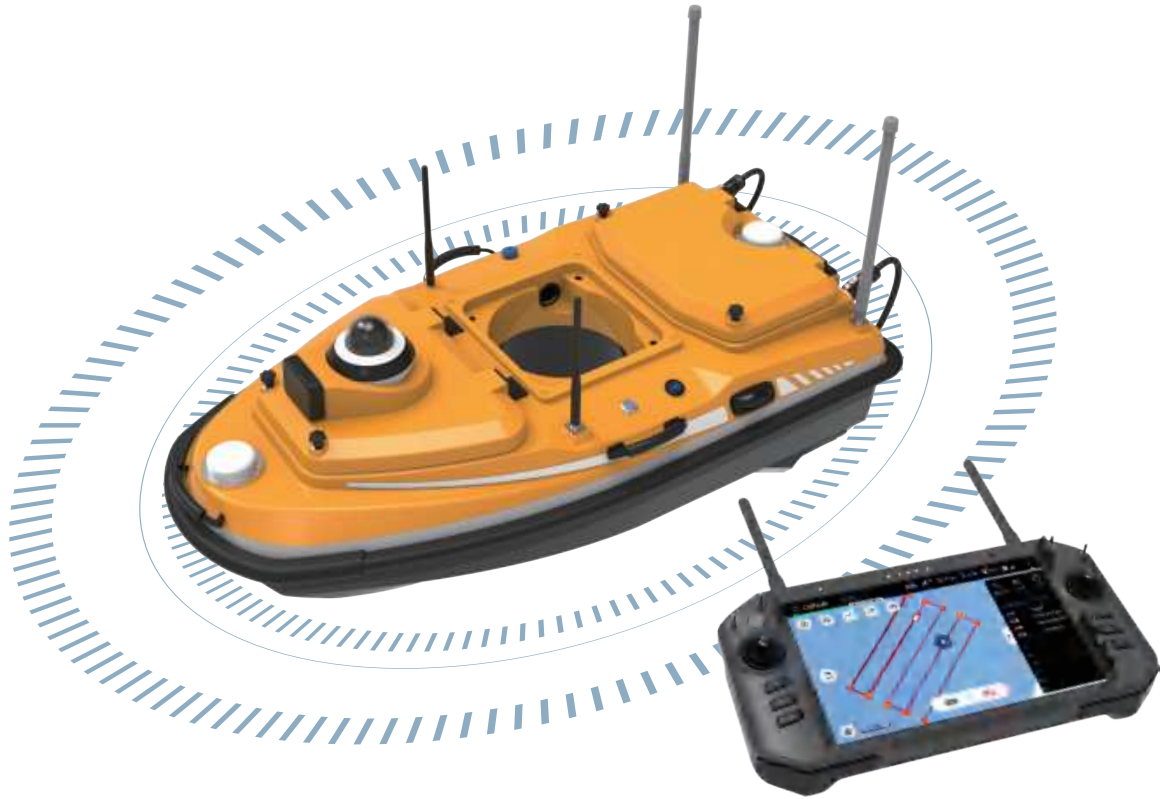
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SV600 Pro

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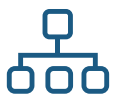
SV600 PRO PRODUCT OVERVIEW

SV600 Pro is ComNav's next-generation intelligent survey USV, offering a full upgrade in both hardware and software. It features a carbon fiber composite hull with an optimized hydrodynamic design and detachable side wings, providing higher durability and better resistance to wind and waves. A 1100W propulsion system paired with a 24 cm moon pool delivers strong power and higher payload capacity. A 10.1-inch industrial sunlight-readable display and integrated temperature sensor ensure accurate and efficient field operation. On the software side, it integrates a Beidou high-precision positioning system and an upgraded data link, enabling higher bandwidth, stronger signal stability, and real-time multibeam and ADCP data integration. It delivers reliable communication in rivers, lakes, and offshore environments.

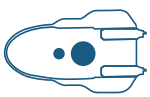


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Vessel Battery Status
- 

Integrate GNSS Antenna
- 

Integrated Master Control Design
- 

Obstacle Avoidance Radar System
- 

Dual Moon Pool
- 

IP67 Dustproof & Waterproof
- 

Quick Installation
- 

High-speed Propeller with Long Life
- 

Auto Measurement of Cross Section & Line
- 

360° Night Camera

FEATURES

New Hull Design & New Sensing System

The SV600 Pro uses a new-generation carbon fiber composite hull, making it lighter while improving impact resistance. The new flow-guiding design enhances anti-interference performance. The double-layer hull structure with detachable anti-collision strips further improves durability and protection.



New Sensing System: Intelligent Self-Check & Assisted Measurement

SV600 Pro is equipped with a next-generation temperature sensor that continuously monitors the water temperature around the vessel in real time. The data is transmitted to the software, where it is automatically analyzed and used to dynamically adjust sound velocity parameters, thereby improving overall measurement accuracy.



New Data Link System

The new-generation data link system significantly improves communication bandwidth and signal strength. It ensures stable data transmission even in complex environments, providing more reliable connectivity.



Upgraded Thruster System

The upgraded thruster system delivers higher power and greater thrust, with a triple waterproof design for longer service life. The single motor reaches up to 1100W, enabling a maximum speed of 7 m/s and resistance to currents up to 3 m/s.



Enlarged Moon-Pool

The redesigned moon-pool offers larger capacity, improved adaptability, and an optimized structure. It comes standard with a high-precision echo sounder and is compatible with ComNav hydrographic and mainstream third-party instruments, supporting payloads such as ADCP, compact multi-beam echo sounders, and sub-bottom profilers.



Remote Controller Upgrade

The upgraded remote controller is equipped with a larger display, longer battery life, and smoother operation. With a 2000-nit industrial-grade sunlight-readable display, it ensures clear visibility under strong light, cloudy conditions, and other complex lighting environments, providing improved visual comfort and easier operation.

