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SB100PRO

COMPACT FORCE MULTIPLIER USV

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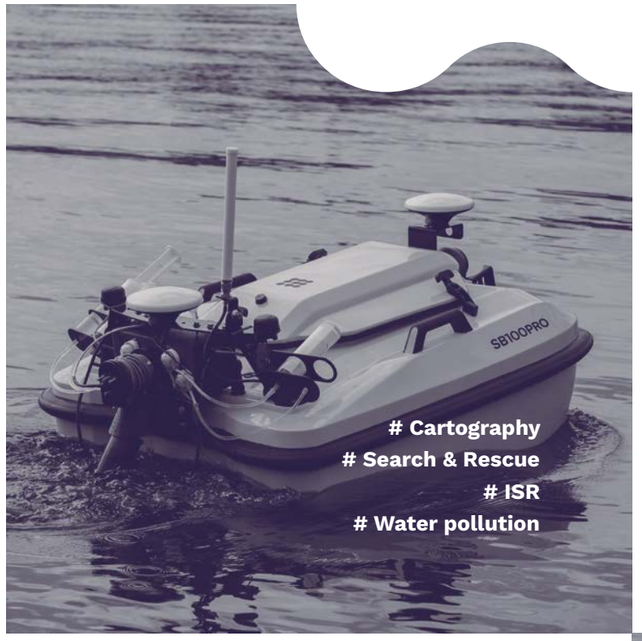
Compact force multiplier for coastal and inland waters operations



SB100 is a compact, man-portable USV designed for rapid deployment in coastal and inland waters. With modular payloads, silent propulsion and real-time intelligence streaming, it enhances naval situational awareness and operational safety where manned craft or divers cannot operate.

Advantages

 # REAL-TIME INTELLIGENCE
Secure remote data streaming to C2.

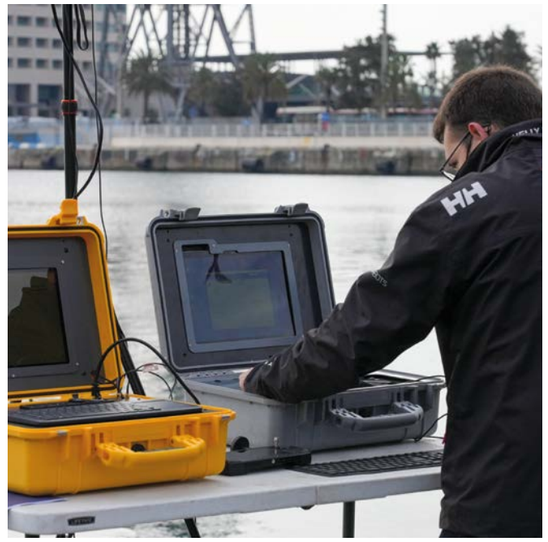
 # ACCESS TO RESTRICTED WATERS
Operate where divers or vessels cannot.

 # LOW SIGNATURE
Discreet operations in sensitive environments.

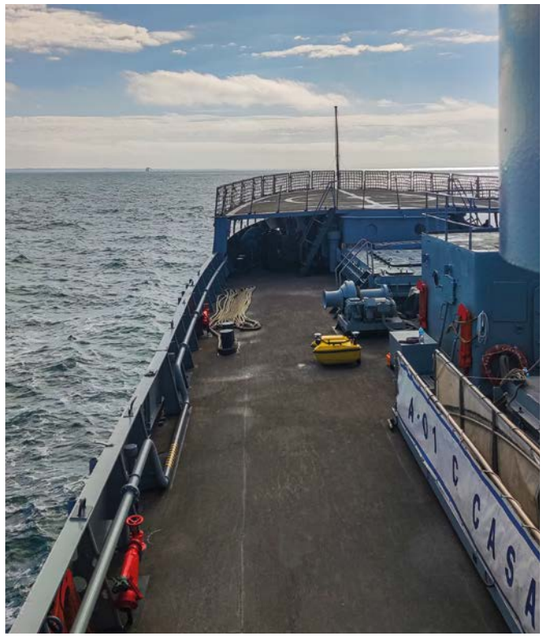
 # RAPID DEPLOYMENT
Launchable from shore or vessels in minutes.

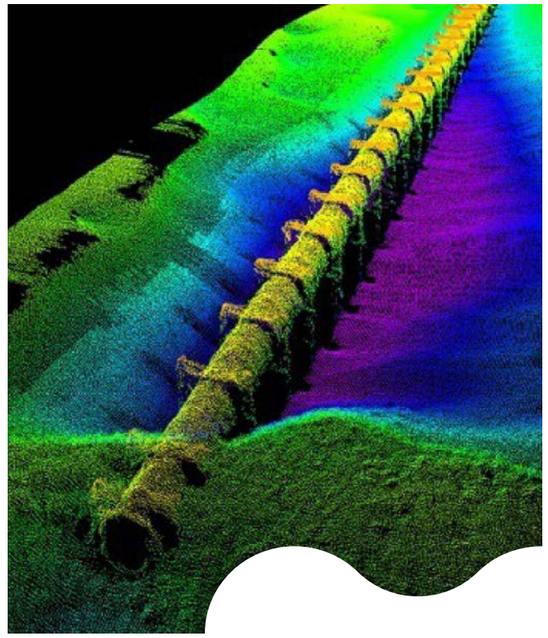
 # SINGLE-OPERATOR SYSTEM
Reduces manpower and logistics footprint.

 # MODULAR PAYLOAD BAY
Quick setup for different applications.



Applications





ISR

Equipped with cameras, radars, lidars and scanning sonars, SB100 enables persistent monitoring of surface and subsurface domains. Detects and tracks potential threats to ensure port and coastal security.

CBRN MONITORING

With dedicated sensors, SB100 can detect and map traces of chemical, biological, radiological or nuclear threats in the aquatic environment, including automated collection of water samples for laboratory analysis.

MINE COUNTERMEASURES

SB100 performs detection of mine-like objects and enables subsequent visual confirmation at depth, supporting EOD teams while keeping divers out of harm's way.

COASTAL MAPPING

In areas where nautical charts are uncertain, SB100 can rapidly generate updated maps. Using Satellite-derived Bathymetry for large coverage or multibeam echosounders for high-resolution detail, it delivers accurate coastal intelligence for operational planning.

SEARCH & RESCUE

Fitted with side-scan sonars and deployable cameras, SB100 can locate and identify persons or objects on the seabed, providing real-time data to command centers for rapid response.

CRITICAL INFRAESTRUCTURE INSPECTION

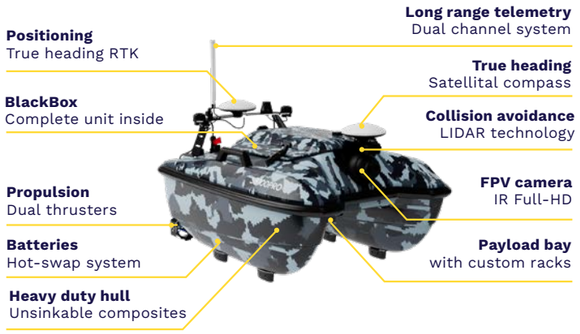
Through the integration of an onboard ROV, SB100 delivers live video streaming to command centers, supporting the detection of anomalies and potential threats in underwater structures such as hulls, piers, moorings, pipelines or cables.

DYNAMIC COMMUNICATION NODE

In missions where secure and reliable communications are critical, SB100 can act as a mobile relay node. Extending coverage and ensuring connectivity between units and C2.

SB100 Platform

The vehicle itself: a compact and man-portable USV that provides mobility and endurance for coastal missions. Its modular bay allows quick payload integration, making the platform adaptable to ISR, MCM or inspection tasks. Silent electric propulsion and shallow draft enable discreet access to ports, channels and confined waters where conventional craft cannot operate.



Blackbox

The onboard brain of the system. It manages energy distribution, controls the mission electronics and integrates the data streams from all payloads. Acting as the link between sensors and operators, the Blackbox ensures that collected intelligence is processed and securely transmitted in real time, even in complex or contested environments.

Ground Station

The mission control center. It receives and displays all payload outputs — sonar images, live video, environmental data — and turns them into actionable intelligence for the operator. The Ground Station connects seamlessly to command and control structures, ensuring that decision-makers have immediate access to critical situational awareness during operations.

Controller

The navigation interface. Designed for ease of use, it gives the operator direct control of the USV's movement — from manual driving to fully autonomous waypoint missions. This separation between navigation (Controller) and payload intelligence (Ground Station) increases operational safety and clarity, ensuring that both mobility and data are managed without compromise.

Technical specifications

Navigation

Positioning: GNSS + IMU (True heading)
Navigation modes: Manual, waypoint, survey pattern, DP1
Collision avoidance: Lidar or K-Band radar + COLREG algorithm
Precision: Centimeter-level accuracy with active RTK

Power system

Propulsion: Two electric thrusters
Energy: LiFePO Batteries
Configuration: Dual-battery system. EM-compatible
Charge: Hot-swap capable. No reboot required

Communications

Links: Dual channel 2.4 GHz (encrypted) and 4G/5G links
Range: Up to 1 Km native, unlimited via network
Streaming: Real-time video and payload streaming to C2
Interoperability: Ready for NATO C2 integration

Mobility

Weight: 25 kg
Dimensions: 100 cm x 75 cm x 55 cm
Draft: 15 cm
Deployment time: < 5 min

Performance

Speed: 3 kn
Endurance: Up to 8 h
Payload capacity: 20 kg

Environmental

Sea state capability: Beaufort 2
Operating temperature: 0-35ºC

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Founded in 2019 under the umbrella of the industrial group GPAINNOVA, is dedicated to facilitating the digitization of marine assets through cutting-edge robotic solutions. Our expertise in coastal environments has positioned us as as a strategic partner for projects that require precision and control in complex conditions where conventional methods are inefficient.

With over 40 robots deployed across in 15 countries and an operations team with more than 250 successful missions, we offer a unique blend of technical expertise and operational capability. This knowledge allows us to address the specific challenges of marine environments, reducing costs, risks, and environmental impact while enhancing data accuracy and accessibility.

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