# SB100PR0



#### **Blue Floating Technology**

for exploration and preservation of the aquatic environment



## The **SB100 PRO** is the most versatile USV for your surveys in sheltered waters

#### Versatile tool

**SB100 PRO** is a compact multipurpouse Unmanned Surface Vehicle.

It can host all types of payloads, in order to meet needs related to:

- # Hydrography
- # Water Analysis
- # Engineering Inspection
- # Scientific Research
- # Search & Rescue
- # Water Surface Cleaning.





#### All-in-one solution

Designed and manufactured under "ready-to-nav" concept, SB100 PRO has everything necessary to launch and work.

#### Advantages vs. conventional vessels

#### FAST AND EASY DEPLOYMENT

It can be transported in the trunk of the car or a small van.

Easy to deploy and recover from the water.

#### COST REDUCTION

Reduction of operating costs. One-man operated.

Reduction of maintenance costs. Electric propulsion and heavy duty components.

#### NO HUMAN RISK

Unmanned. Fully operated from the ground. Access to confined spaces, shallow waters or hazardous areas.

#### AUTOMATION

Semi-autonomous system. It can be used manually or with autopilot.

Real-time data from the ground, or even from the office if 4G/LTE connection is available.

#### **FRIFNDIY**

Easy to use. A very fast learning curve with our 1-day training plan.

Respectful of the environment. Fully electric, no fluids, non toxic materials.

- Tasks automation
- · Real-time data from the ground





- · Easy to transport and deploy
- · One-man operated

Access to confined spaces and high-risk areas



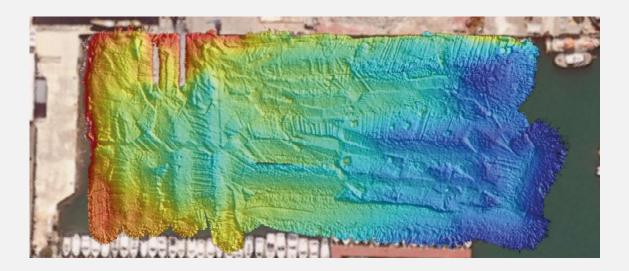
IP protection

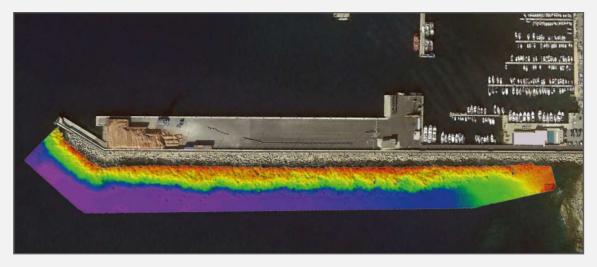


Bluetooth



## **Hydrography** Applications





Available

#### **Payload**

- # Single Beam Echosounder
- # Multi Beam Echosounder
- #SVS/SVP
- # ADCP
- # Sub-bottom profiler

Specific

#### **Applications**

- # Engineering projects
- # Maritime works
- #Oil & gas
- # Dredges
- # Environmental studies

## Water quality Applications





Available

#### **Payload**

- # Multiparametric sounder # Water sample dock

Specific

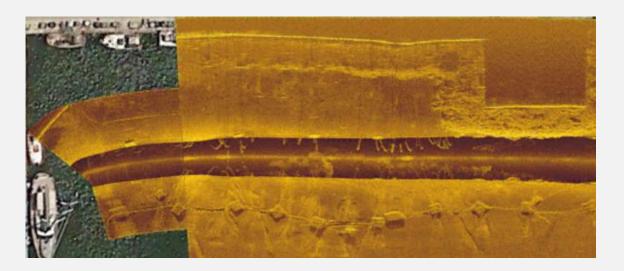
#### **Applications**

- # Aquaculture # Mining
- # Environmental law compliance
- # Scientific research



#### **SAR & inspection**

Applications





#### Available

#### **Payload**

- # Sidescan sonar
- #Thermal camera
- # Underwater camera
- #LIDAR
- #Thickness probe

#### Specific

#### **Applications**

- # Missing at sea search
- # Archeology # Mooring and sealines inspection
- # Search for invasive or endangered species



### **Technical** specifications

#### Size and weight

Measurements	103 cm x 75 cm x 55 cm
Weight (no batteries)	31 Kg
Draft	15 cm
Material	Fiberglass composite

#### Performance

Maximum load	15 Kg
Work speed	1 m/s
Range	1,5 Km native or unlimited 4G/LTE
Endurance	up to 3 h @ 1m/s (thrusters) Up to 10 h (systems) (Fast battery change < 30 sec)

#### Positioning

System	GNSS RTK
Multiconstellation	Yes
Multiband	Yes
RTK corrections	Integrated Base or NTRIP

#### Power system

Batteries	1 x Systems & 1 x Thrusters
Battery type	LiFePo4 > 2000 cycles
Capacity	30Ah @ 12V (each)
Charger included	15 Ah

#### USV control system

Controller	5,5' touchscreen
Software	QGC based
Control modes	manual, auto (waypoints) auto (survey), DP1

#### Payload data link

Comm type	Remote link to USV blackbox
Comm channel	Integrated Wifi or 4G/LTE
Station interface	Microsoft Surface Pro
OS	Windows 10

#### Blackbox

CPU	Intel i5, 16Gb RAM
OS	Windows 10 Pro
Data (in/out)	USB, Ethernet, RS232,RS422
Payload power suppl	y 5V, 12V, 24V

#### Environment

Operating temperature	0° C to 30° C
Storage temperature	0° C to 40° C
Protection Index	IP 65

#### Company

## Aquatic tasks, easier, safer and cost-effective, the vision of **GPA**SEABOTS

- # A **GPA**INNOVA company, focused in the design and developement of **BLUE FLOATING TECHNOLOGY** for exploration and preservation of aquatic environments.
- # Located in the heart of BARCELONA, with more than 6,000 sqm of new facilities, **GPA** GROUP develops its activity around design and manufacturing of industrial machinery, robotics, electronics, medical devices and chemicals.
- **GPA**INNOVA has been the fastest growing Spanish industrial goods company in the last 3 years, according to the Financial Times,



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