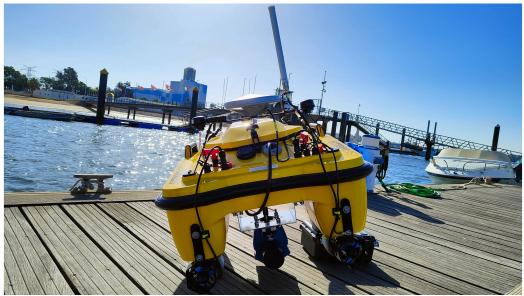
GPASEABOTS Blue Floating Technology



SB100PRO M7 Multibeam Sonar Unmanned Surface Vehicle



Technical specifications **USV**

Performance	Maximum load	15 Kg	Size and weight	Measurements	103 cm x 75 cm x 55 cm
	Optimum work speed Thrusters	1 m/s		Weight (no Payload, no batteries)	31 kg
		2 m/s max speed (3.8 knots) 2 x 350 W 9 Kgf			
		Material		Fiberglass composite	
	Electric system	Battery type	LiFePo4 > 2000 cycles	Control systems	Control type
Capacity		2X 12V 30Ah	Control modes		Manual, Auto (waypoints), Auto (survey), Fix Speed, DP1
Work time @ 1 M/S		Up to 3 hours	Control software		Customized QGC- based software
Charge time		Less than 2 hours			
Charger included		15 Ah	Navigation sensors		GNSS RTK FMU board (USV) Frontal camera Frontal
Batterie	es replacement takes	less than 30 seconds			distance sensor
				Frequency	2,4 Ghz
Black Box (control unit)	CPU	i7 10gen 16 Gb RAM	Environment	Operating	from 0 to 30° C
	OS	Windows 10 Pro		temperature	

	OS	Windows 10 Pro
	Data (in/out)	RS 232, RS422, Ethernet, USB, HDMI,
	Power supply	5V, 12V & 24V

Storage temperature

Protection index

from -20 to 45° C

IP 65







SB100PRO M7 Multibeam Sonar Unmanned Surface Vehicle



Technical specifications Ground Station

Positioning	System	GNSS RTK*		
	Multiconstellation	• GPS: L1, L2 • Galileo: E1, E5b		
		• GLONASS: L1, L2 • Beidou: B1, B2		
		• QZSS: L1, L2 • SBAS: Egnos, WAAS, GAGAN,		
	• SDAS. Egilos, WAAS, GAGA MSAS, SDCM (I			
	Multiband	Yes Integrated Base or NTRIP		
	RTK corrections			
*simpleRTK3B Hea	ding based on Septentrio Mo	osaic		
Environment	Operating temperature	from -10 to 30° C		
	Storage Temperature	from -20 to 45° C		
	Protection index	IP 67		

Communication system	Communication type	Remote link or Ground Station to USV	
	Communication channels	4G/LTE* or native WIFI @ 5 Ghz	
	Interface	Microsoft Surface Pro	
	OS	Windows 10	
*Remote desktop softw	are (TeamViewer, Anydesk, S	SupremoControl,) is required.	
USV control system	Controller	5,5' touchscreen	
	Software	QGC based	
	Control modes	Manual, Auto (waypoints Auto (survey), DP1 Guided, Loite	
Size and	Case type	PELI rugged case	
weight	Measurements	47 cm x 36 cm x 18 cm	
	Weight	8 kg	

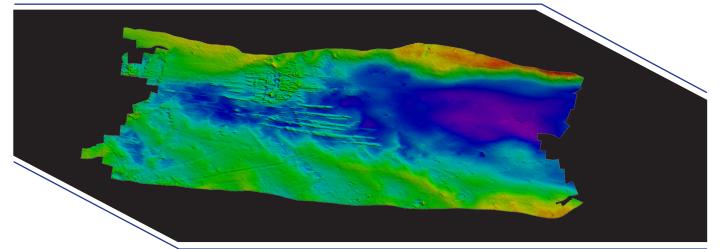
GPA SEABOTS SL C/ Maracaibo, 1, nau 2-6-08030 Barcelona www.gpaseabots.com

M7 Integrated Multibeam Sonar

M7 is a highly-versatile, high-resolution multibeam echo sounder, which is also extremely simple to use and to install on the vehicle. The tightly coupled GNSS INS makes it easy to integrate even on ultra-small vehicles and very quick to mobilize. Its hydrodynamic form factor and its low power consumption makes it the perfect choice for small autonomous surface vehicles, data acquisition included.



Ponds and Lakes	****	University Research	****
Harbors/Construction	****	Dredging	****
Coastal Waters	****	Archeology	****
Small Survey Boats	****	Autonomous Surface Vehicles	****
Large Survey Boats	***	Small Survey Companies	****

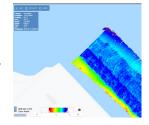


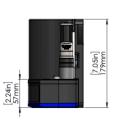
Specifications:

•	1
Swath coverage	Up to 130 degrees
Number of RX beams	512
TX beam width along-track	1.45°
RX beam width	1° ±0.1
Range	>200m
Range accuracy	<10mm
Beam distribution	Equi-Distant and equi-angular beam distribution
Roll stabilisation	Yes
Pressure rating	60m
GNSS/INS	INS in Sonar
Position	HOR: ±(8mm +1ppm X Distance from RTK Station) VER: ±(15mm +1ppm X Distance from RTK Station) (Assumes 1m GNSS Separation)
Heading Accuracy	0.08° (RTK) with 2m Antenna Separation
Pitch/Roll Accuracy	0.03° Independent of Antenna Separation
Heave Accuracy	2cm or 2% (TRUEHEAVE™). 5cm or 5% (Real Time)
Ping Rate	50 Hz
Outputs	Bathymetry, Side Scan
Compatible with	Qinsy, Hypack, BeamworX, SonarWiz a.o



data acquisition included









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