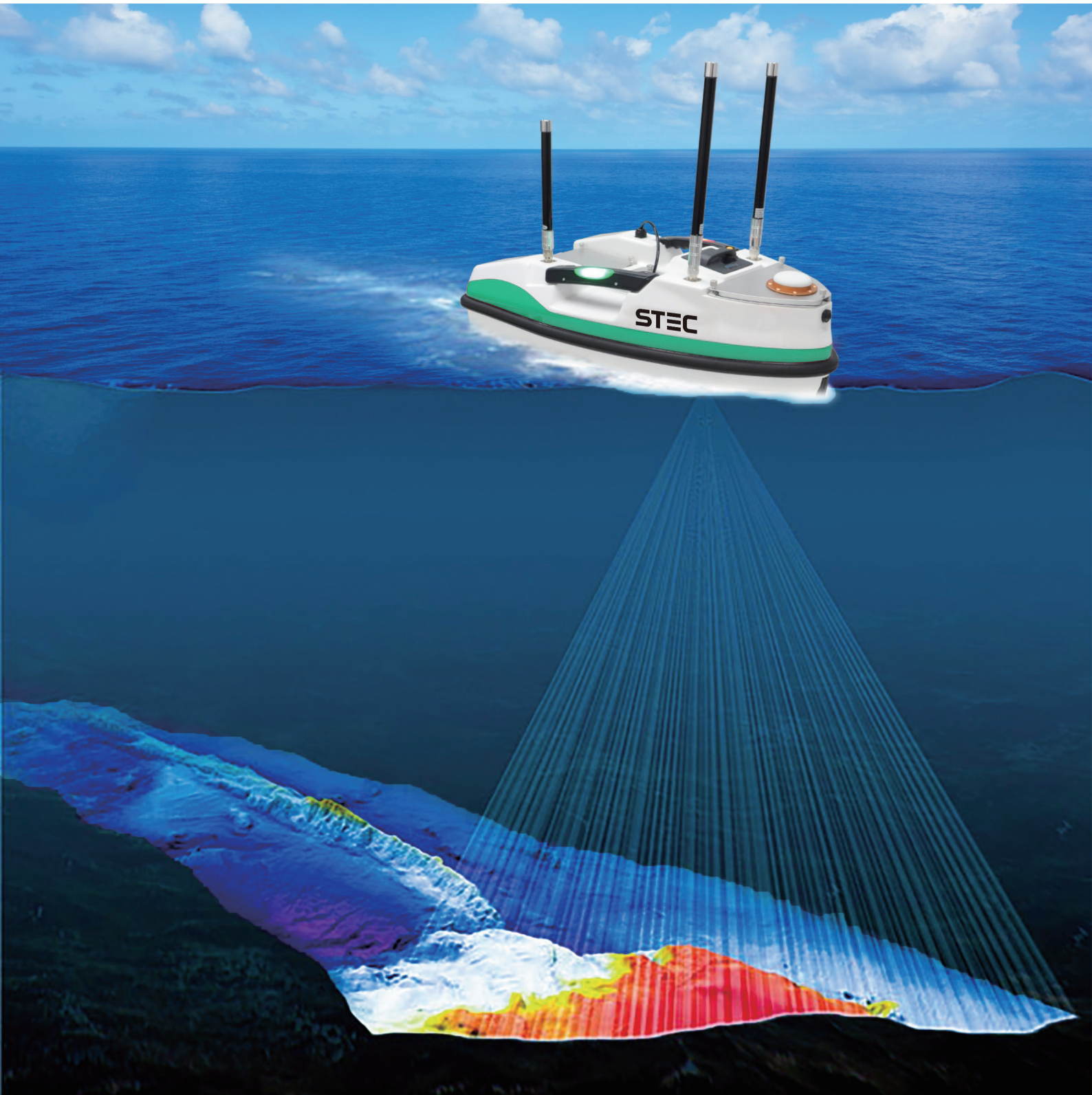


HydroNavi H1

STEC HydroNavi H1 is a compact V-shaped trimaran unmanned boat for marine survey. It is capable to carry various sensors to complete different tasks.



SPECIFICATIONS

PHYSICAL

Dimension	750mm (L) * 410mm (W) * 230mm (H)
Materials	Kevlar + Carbon fiber
Weight	5kg
Max. Load	8kg
Anti-wave & Wind	Level 2 wave Level 3 wind
Boat Shape	V-shaped
Navigation Light	A pair of 2-color navigation LED
Camera	Real-time HD video transmission
Available Instrumentation	Single-beam echo sounder (standard) Side scanning sonar (optional) ADCP (optional) Online water quality monitoring system (optional) Water sampling system (optional)

ELECTRICAL

Working Time	4h @ 2m/s
Cruising Speed	1.5 - 2m/s
Max. Speed	5m/s
Motor	Brushless DC motor (BLDCM)
Propeller	Ducted propeller

NAVIGATION & COMMANDER SYSTEM

Navigation Model	Manual / Automatic / Cruise
Positioning System	Specific GNSS device. Supports GPS/BDS.
Obstacle Avoidance	Ultrasonic radar
Direction Control	Supports servo-free steering and "reverse" function
Communication Loss Protection	Auto return when communication is lost.

COMMUNICATION

Mode	Real-time RF point-to-point communication
Distance	2km
Device Configuration	Laptop / Tablet / Ground station (optional)
Software Platform	Windows / Android
Software Function	USV Management / Route Management / Status Display / Data Management / Log Function
Remote Control	Water and dust proof / Drop-resistant / Digital HD image transmission / Ultra-long link

SOUNDING PERFORMANCE

Frequency	200kHz
Beam Angle	5°
Sounding Angle	0.4 - 100m
Sounding Accuracy	±1cm ± 0.1% D (D: depth of water)
Resolution	0.01m
Data Output	RS-232 (depth data format can be customized.)
Pressure Depth	≥50m



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