Uncrewed Surface Vessel for Hydrographic Survey Applications



TRANSPORTATION AND DEPLOYMENT

HyDrone™ is one person portable, allowing easy access to remote and dangerous areas.

- Made from High-quality marine grade materials.
- Easily disassembles for transport and shipping.

SEMI-AUTONOMOUS AND REMOTE CONTROL

Controlling the HyDrone[™] is easy using a long-range, remote control unit (RCU).

- Up to 1km range.
- Six hours survey endurance.
- Maneuver easily with powerful differential thrusters.

SOFTWARE COMPATIBILITY

HyDrone[™] is compatible with hydrographic data acquisition software such as Hypack, Carlson, EPOCH, Leica, Sokkia, Topcon, and Trimble.

CUSTOMIZATION

- The desired depth sounder can be pre-installed or the HyDrone[™] can be supplied ready to accept existing equipment from the user's surveypool.
- HyDrone[™] can be outfitted with singlebeam, multibeam, sidescan sonar systems and ADCPs.
- · Maintain survey line & fixed heading for ADCP Surveys.
- For professional hydrographic survey requirements, HyDrone™ may be tailored for individual customer specifications. Additional features are available, please contact your Seafloor representative. with Trimble GPS (

The **HyDrone™** is a lightweight, unmanned surface catamaran developed for hydrographic survey applications.

This highly-economical platform provides the same survey results as more expensive remote-controlled systems.



One Person Portable



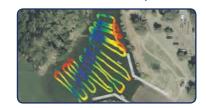
Preplanned route using Mission Planner



Differential Thrusters



AutoNav™ Control System



Resulting survey data via Mission Planner









HyDrone™ ASV with Trimble SPS 585 and TSC3

Seafloor Systems, Incorporated | 4415 Commodity Way | Shingle Springs, CA 95682 | USA

HyDrone[™] Unmanned Surface Vehicle



73 cm / 29 in





Specifications

Typical Survey Speed 2 kn

Top Speed 4 knots RCV

Hull Length 116 cm / 45.6 in

Hull Width 21cm / 8.2 in

Hull Material UV Resistant HDPE

Hatches 4 x 6" Twist-Out Watertight Closure

Frame Powder Coated Aluminum

Hardware Stainless Steel

Empty Hull Weight & Batteries 9.8 kg / 25 lbs

Battery Endurance 6 Hours at Survey Speed (Field

Swappable Batteries)

Payload 15 kg / 35 lbs

Power 2x 14.8 VDC 16 Ah Battery LiPo

Motor 2 x Brushless Thruster

R/C 2.4 GHz

Remote Range Up to 1km

Instrumentation Options

HyFi Plus™ AutoNav ™ Control System

AutoNav Plus™ HydroLite ™ Pole Kit

HydroLite-Plus™ SonarMite™ MILSpec Echosounder

PC Laptop

RTK GPS

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