

# HyDrone™

Unmanned Surface Vehicle

# Seafloor™



## TRANSPORTATION AND DEPLOYMENT

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

- High-quality marine 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.
- Eight 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 supplied ready to accept existing equipment from the user's surveypool.
- HyDrone™ can be outfitted with singlebeam, multibeam, sidescan sonar systems and ADCPs.
- Maintain 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.

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



Differential Thrusters



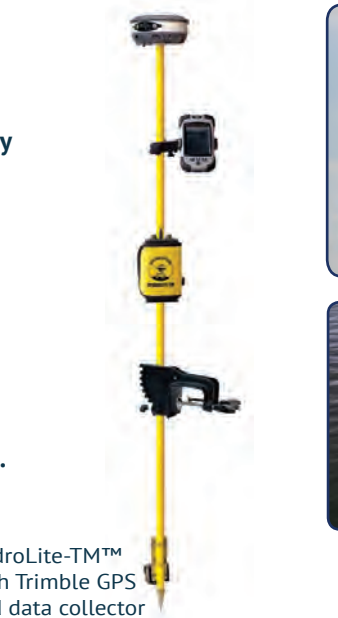
AutoNav™ Control System



Preplanned route using Mission Planner



Resulting survey data via Mission Planner



HydroLite-TM™ with Trimble GPS and data collector



HyDrone™ ASV with Trimble SPS 585 and TSC3

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Unmanned Surface Vehicle



73 cm / 29 in

116 cm / 45.6 in



## Specifications

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Typical Survey Speed             | 2 - 3 kn                            |
| Top Speed                        | 6 kn                                |
| Hull Length                      | 116 cm / 45.6 in                    |
| Hull Width                       | 21cm / 8.2 in                       |
| Hull Material                    | UV Resistant HDPE                   |
| Hatches                          | 4 x 7" Twist-Out Watertight Closure |
| Frame                            | Aluminum Powder Coated              |
| Hardware                         | Stainless Steel                     |
| Empty Hull Weight & Batteries    | 9.8 kg / 25 lbs                     |
| Battery Endurance                | 8 Hours at Survey Speed             |
| 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                           |
| ECU (Electronic Controller Unit) | 2 x 120 amp                         |

## Instrumentation Options

|                |  |
|----------------|--|
| HyFi Plus™     | AutoNav™ Control System                  |
| HydroLite-DFX™ | Built-In Telemetry System                |
| HydroLite-TM™  | Dual Frequency Echosounder<br>200/30 KHz |
| PC Laptop      | HydroLite™ Pole Kit                      |
| RTKGPS         | SonarMite™ MILSpec Echosounder           |

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