



Seafloor

datasheet

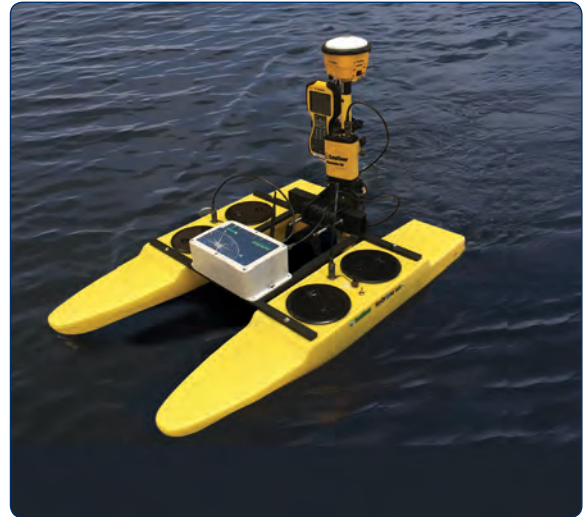
The HyDrone-RCV-G2™ is a one-man portable, remotely controlled catamaran platform developed for hydrographic survey applications. Working in conjunction with the HydroLite™ portable echosounder kit, the HyDrone-RCV-G2 accomplishes the same results as more expensive RC survey systems. The lightweight, wide profile, and watertight construction provide stability, ruggedness and portability. It is manufactured from high quality marine materials and components and easily disassembles for transport and shipping.

Work environments include mines, sewage treatment plants, contaminated lakes, harbors and rivers.

Remote control of the survey boat is easy using a high-power remote control system that offers up to 2 km range, with a survey endurance of over 8 hours at a survey speed of 3 knots on a single battery pack.

HyDrone-RCV-G2™

Remotely-Controlled Survey Vehicle
with **Autonomous** Option



HyDrone equipped with the HydroLite™ survey pole kit and AutoNav™ auto pilot module



Light-weight and portable



Powerful differential thrusters
for maneuverability

- ▶ **Wide profile for stability**
- ▶ **Watertight, durable construction**
- ▶ **Up to 22 Km/h**
- ▶ **Easy disassembly for transport and shipping**
- ▶ **Competitive pricing**
- ▶ **Optional Auto Pilot module**

With our AutoNav™ option, the HyDrone is also fully autonomous; the vehicle can be monitored while under way, in both Auto and Manual modes.

The mission planner application runs on a base station laptop connected through a radio telemetry link, and displays the vehicle's graphical position and progress against a background map of the survey area. Battery voltage, current, and capacity remaining is monitored via this link.



Side view of HyDrone



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HyDrone-RCV-G2™

Remotely-Controlled Survey Vehicle with Autonomous Option

specifications

Typical survey speed	3 kts / 1.5 m/s
Top speed	12 kts / 22 Km/hr
Hull Width	736mm / 29 in
Hull Length	1143mm / 45 in
Battery Endurance	8 hours
Payload	11.3kg / 23 lbs
Power	2x 16v 16 Ah battery LiPo
ECU (electronic controller unit)	2x 180 amp water-cooled
Motor	2x brushless thruster
Hull Material	UV resistant HDPE
Frame	Aluminum powder coated
Steering	Differential
Weight	9 kg / 20 lbs
Hardware	Stainless steel
Hatches	4x 7" twist-out watertight closure
R/C	Futaba® 2.4GHz long range
Remote Range	2 km



Compatibility: AshTech, Carlson, EPOCH, Leica, Magellan, Sokkia, Topcon, Trimble

HydroLite-TM™

instrumentation options

- Sound velocity profiler
- RTK GPS
- Radio telemetry
- Side scan sonar module
- HYPACK software
- HydroLite-TM

HydroLite Pole Kit
 SonarMite MILSpec echosounder
 Rugged shipping case

- Auto Pilot Module

AutoNav™ Control System
 Embedded GPS and Compass
 Built-in Telemetry System
 PC laptop
 Mission Planner Application
 USB Radio Telemetry



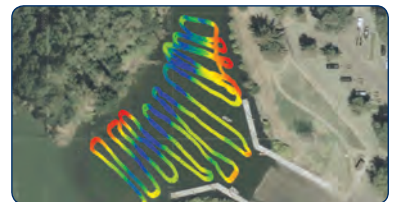
AutoNav™ Control System



HyDrone-ASV-G2™



Mission Planner application installed on a PC laptop showing preplanned survey



Survey data collected through Mission Planner on PC laptop

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