Seafloor™

HYDROCAT-180

Uncrewed Surface Vessel for Hydrographic Survey Applications

The **HydroCat-180™** USV is capable of transiting from inshore to nearshore environments with high-resolution equipment payloads to conduct preplanned autonomous hydrographic surveys.

The 18ft (5.5m) catamaran features individually-articulating pontoons, a gimballed deck, retractable sonar pole mount, and independently-actuated electric motors.

The vessel can be transported via trailer, programmed to execute missions, and navigate up to sea state 4 conditions with its aluminum hull construction.

FEATURES

- Wifi Data Communication System
- Onboard Industrial PC
- Independent Roll and Pitch Damping / Control
- Gimballed Payload Bay (Actively Cooled)
- Remote-Controlled Sonar Deployment Pole
- 4 Batteries (With option for additional batteries to extend operational endurance)
- 2 x 25HP Equivalent Torqueedo™ Motors With Electric Tilt / Trim
- AutoNav™ Autopilot System
- Auto-Stop Smart Charger for Payload Batteries
- Nav Aids (Strobe, Nav Lights, Day Shapes)
- Integrated Lifting Points
- Custom-Configured Dual Axle Trailer

SPECIFICATIONS

- Length .... 18 ft (5.5 m)
- Width .... 8 ft (2.5 m)
- Overall Height .... 7.5 ft (2.3m)
- Payload .... 800 lbs (365 kg)
- Propulsion .... Dual Electric Outboards
- Default Battery Configuration .... 4 Batteries
- Max Speed .... 6 kn*
- Optimal Survey Speed .... 2.5kn - 4.0kn*

Speed in ideal conditions. 4 to 18 hours operational endurance at survey speed or 1.5 hours operational endurance at max speed with default battery configuration. Can upgrade to additional batteries to extend survey operation endurance.

AVAILABLE SYSTEMS

- Single or Dual Head Ultra-High Resolution Multibeam Echosounder
- Sidescan Sonar
- Magnetometer
- Sub Bottom Profiler
- SmartCast™ Sound Velocity Profiling Winch
- 180° HD Video Camera
- Collision Avoidance Assist (LiDAR or LiDAR + Camera system)

High-powered payload options, like Teledyne's IDH T-50

Transportable via trailer

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

info@seafloorsystems.com | www.seafloorsystems.com

REV 9/1/22