

HYDROCAT-180™

Unmanned Surface Vessel for Hydrographic Surveys



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

The vessel can be transported via trailer, programmed to execute missions, and navigate up to sea state 3 conditions with its aluminum hull construction.

FEATURES

- Wifi Data Communication System
- Onboard Industrial PC
- Individually Articulating Aluminum Hulls
- Gimballed Deck
- Remote Controlled Sonar Deployment System with Locking Piston
- 2 Batteries (With option to upgrade to 4 or 6 for extended operational endurance)
- 2 x 10 HP Equivalent Torqueedo Motors
- AutoNav™ Autonomous Wayfinding System
- Nav Aids (Strobe, Nav Lights, Day Shapes)
- Mast
- Trailer

AVAILABLE SYSTEMS

- Single or Dual Head Ultra-High Resolution Multibeam Echosounder
- 180° HD Video Camera
- SmartCast™ Sound Velocity Profiling Winch
- LIDAR
- Sidescan Sonar
- Magnetometer
- Sub Bottom Profiler

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 2 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 4 or 6 batteries to double or triple operational endurance.*



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



Transportable via trailer