

Seafloor™ datasheet

HydroCat-180™ Unmanned Surface Vehicle

About

The HydroCat-180 is a USV capable of transiting from inshore out to offshore environments whilst carrying high-resolution payloads to conduct full autonomous hydrographic surveys.

The HydroCat-180 is an 18-ft (6 m) catamaran, with individually articulated hulls, a gimballed deck, and dual-actuated electric motors. Additionally, the vessel can be transported via trailer, has a retractable sonar mount, SVP winch, and is capable of operating autonomously.

Features

- ▶ Wifi Data Communication System
- ▶ Onboard Industrial PC
- ▶ Individually Articulated Hulls
- ▶ Gimballed Deck
- ▶ Mast
- ▶ Remote Controlled Sonar Deployment System with Locking Piston
- ▶ 2 batteries (+ 2 spares) - 48 volt 150 Ah
- ▶ 2 10HP Torqueedo Motors
- ▶ AutoPilot
- ▶ Trailer
- ▶ Nav Aids (Strobe, Nav Lights, Day Shapes)

Available Systems

- ▶ Single or Dual Head Ultra-High Resolution Multibeam
- ▶ 180 HD Video Camera
- ▶ Sound Velocity Profiling Winch
- ▶ Merlin LIDAR
- ▶ Sidescan
- ▶ Magnetometer
- ▶ Sub Bottom Profiler



HydroCat-180 in the San Francisco Bay

Specifications

Length.....	18 ft (approx. 6 m)
Width.....	8 ft (approx. 2.5 m)
Overall Height.....	9 ft (3 m)
Endurance.....	4-8 hours
Payload.....	700 lbs
Propulsion.....	Dual Electric Outboards
Cruise Speed.....	3 kn
Max Speed.....	10 kn



HydroCat-180 can be easily transported via trailer