

# HydroCat-180™

## Unmanned Surface Vehicle

# Seafloor™



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

The HydroCat-180 is an 18-ft (5.5 m) catamaran, with individually articulated hulls, a gimbal 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
- ▶ Gimbal Deck
- ▶ Mast
- ▶ Remote Controlled Sonar Deployment System with Locking Piston
- ▶ 2 batteries (+ 2 spares) - 48 volt 150 Ah
- ▶ 2 x 10HP Torqueedo Motors
- ▶ AutoPilot
- ▶ Trailer
- ▶ Nav Aids (Strobe, Nav Lights, Day Shapes)

## AVAILABLE SYSTEMS

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

## SPECIFICATIONS

|                     |                         |
|---------------------|-------------------------|
| Length.....         | 18 ft (approx. 5.5 m)   |
| Width.....          | 8 ft (approx. 2.5 m)    |
| Overall Height..... | 9 ft (2.75 m)           |
| Endurance.....      | 8-12 hours              |
| Payload.....        | 700 lbs                 |
| Propulsion.....     | Dual Electric Outboards |
| Cruise Speed.....   | 3 kn                    |
| Max Speed.....      | 6.9 kn                  |



Gimbal Deck



Able to carry large multibeam systems, like Teledyne's IDH T-50



HydroCat-180 can be easily transported via trailer

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