

# HydroCat-180™

Unmanned Surface Vehicle

# Seafloor™



The **HydroCat-180™** is a USV capable of transiting from inshore to nearshore environments while 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 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 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

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## 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



Gimballed Deck



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



HydroCat-180 can be easily transported via trailer