BLUEFIN ROBOTICS

Bluefin SandShark™

An Open Platform for Rapid UUV Technology Development

The Bluefin SandShark is a small, open-platform, autonomous underwater vehicle (AUV) designed for developers. SandShark combines a standardized low-cost tail with core vehicle systems, a large modular payload area, and an open development platform. This combination provides a flexible subsea "reference design" to support rapid technology development.

OPEN SOURCE DEVELOPMENT PLATFORM –
Uniquely, SandShark is built on open source software and allows end-users to modify or replace all aspects of the vehicle's software stack. The payload interface allows integration with a variety of open autonomy frameworks (ROS, MOAA, JAUS, MOOS, LCM) and software development environments (C++, Python, MATLAB) in use.

EASY-TO-MODIFY MODULAR DESIGN – With SandShark, you can change or replace *anything*, so the design possibilities are nearly limitless. Features like quick-connect fins for tool-less field replacement and modular body components make SandShark fast and easy to modify.

LARGE USER-DEFINED PAYLOAD CAPACITY –
SandShark features a roomy payload bay, making up over half the vehicle, to accommodate a wide range of sensors and other components. SandShark is the ideal test platform for small low-power subsea sensors and scenarios.

ENGINEERING SUPPORT AND TRAINING – Bluefin provides training and engineering support for UUV component developers. We can help you get up and running with SandShark quickly, and provide ongoing support for your development efforts.

Dimensions	23" - 60" (60cm+) length, dependent on payload
	4.875" (12.4 cm) diameter
	<15 lbs with no payload (6.5 kg)
Tail Section	Propulsion
	Power
	Control
	Open Software Platform
	Easy Integration with autonomy suites: ROS, MOAA, JAUS, MOOS, LCM, and more
Mast Section	Magnetic on/off switch
	Status LEDs
	WiFi Antenna
	GPS
	Visible and Infrared Strobes
Battery	Lithium-Ion battery pack
	Long endurance
	Protection against over-voltage, over-current, under-voltage, under-temp and over-temp
	Undergoing UN 38.3 Certification

For more information, contact us at +1 (617) 715.7000 or sales@bluefinrobotics.com.