



# SUNFISH

Pushing the limits of  
underwater exploration  
and inspection

SUNFISH, Inc.  
3511 Caldwell Lane  
Del Valle, TX 78617

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explore@sunfishinc.com  
(512) 900-6024  
sunfishinc.com

SUNFISH is a person-portable, 6-degree of freedom autonomous underwater vehicle that moves in any direction, assumes any orientation, and independently rotates about any axis. This unique maneuverability allows SUNFISH to sense the environment, acquire data, and build full 3D maps in ways previously unattainable.

SUNFISH is the leading underwater technology for exploration and a disruptive technology for inspection with applications in energy markets as well as commercial, scientific and defense. Our low-logistic system and team is lightweight, compact and ready to deploy.

## DIMENSIONS

Length:	1.61 m
Width:	0.47 m
Depth:	0.20 m
Weight:	50 kg, dry Neutrally Buoyant

## MAPPING

Multibeam sonar range:	150 m standoff 480 beams x 120 deg swath
Multibeam sonar range resolution:	0.02%
Multibeam sonar cross range resolution:	1.3%
Camera resolution:	HD 1920 x 1080
Camera frame rate:	60 Hz interlaced 30Hz progressive

## PERFORMANCE

Max Range:	5 km (optional 10 km)
Max Depth:	200 m (optional 1 km)
Max Speed:	1.0 m/s longitudinal 0.4 m/s perpendicular to vehicle's principal plane
Station Keeping Accuracy:	+/- 5 cm in any orientation
Water Temp Range:	-5°C to +45°C

## NAVIGATION

Dead Reckoning Drift, typical:	0.04% of distance traveled
Dead Reckoning Drift, max:	0.22% of distance traveled

## OPERATING MODES

- Full Autonomy
- Supervised Autonomy
- ActionScript
- Joystick

