



Seaglider Specifications

Size	Body: 1.8 m, 30 cm diameter Wing span: 1 m Antenna mast length: 1 m
Weight	52 kg (dry)
Maximum Depth	1000 m
Maximum Range/Duration	4600 km (650 dives to 1 km depth)
Batteries	Lithium primaries, 24V and 10V packs, 10-MJ
Typical Speed	25 cm/s (1/2 kt)
Glide Angle	16–45° (1:3.5–1:1 slope)
Sensors	Sea-Bird temperature-conductivity-dissolved oxygen WET Labs fluorometer-optical backscatter Variable sample rate by sensor and depth range
Mechanical Features	Isopycnal hull No external moving parts Low drag, flooded fiberglass fairing
Electrical Features	256 MB Compact-FLASH memory 8 serial data channels (4 available) 4 frequency channels (1 available) 12 channels 12-bit A/D (3 available) 5 digital inputs and 3 digital outputs available
RF Data Telemetry	Iridium satellite data telemetry
Software Features	Complete data transmitted after every dive Web-based information interface Control and system commands transmitted on any dive
Guidance and Control	Dead reckoning between GPS fixes using pitch, roll, heading Kalman filter prediction for mean and oscillatory currents Bathymetry map for surface to near-bottom dives