

SOSI

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SEA PROFILER

» Water Column Profiling System




The Sound Ocean Systems, Inc., (SOSI) Sea Profiler™ is a bottom mounted profiling system designed to transport sensor payloads vertically through the water column. It consists of a seafloor base unit and a tethered float, which raises and lowers the sensor-loaded platform—delivering data across the water column. Movement is provided by a base-mounted, underwater winching system.

The Sea Profiler™ provides the user with the ability to sample, acquire and transmit sensor data with pre-programmed mission packages or on-the-fly mission changes via the SOSI communicator control suite. Data can be transferred via submerged cable connection or from surface telemetry communications. The system is rated to 500 m depth.

Possible measurements provided by a Sea Profiler™ Profiling System include but are not limited to: salinity, temperature, dissolved gases and nutrients, currents, plankton, directional wave, chemical, algae as well as optional video, camera and components.

Thank you for reviewing the Sea Profiler™. Please contact our helpful technical staff if you require assistance with this product. Our team of skilled engineers, designers and trained technicians are ready to assist you with product modifications and solutions to meet your most demanding requirements.

Be it an existing product or a customized package—our mission is to offer innovative engineering, design and quality manufacturing at realistic cost for our diverse and growing global customer base. Take action and make waves with SOSI today! 

Technical Specifications

Depth rating..... 500 m (at seabed platform)

Winch cable..... 3/8" eight conductor wire cable, 600 m length (w/Focal model 180 slip ring)

Sensor payloads:

- CTD, directional wave, current
- Chemical
- Algae and other biological sensors
- Still-camera, HD Video, lights

Power..... 24 VDC

Material:

- Polyethylene buoy float
- 316 L Stainless steel frame construction

Communications Iridium, GPS, RF

Interface ROV mate-able (allowing download, repair & replenishment)

Deployment 1 year

*Specifications subject to change

