

Ocean Vertical Structure

Capture 3-D ocean data, layer-by-layer, with sampling intervals as short as six hours to resolve changes from diurnal to seasonal to interannual time scales.



Soundscape Monitoring

Tune into ocean sounds to monitor marine mammals, quantify ambient noise, detect and track both surface and subsea targets for ecological and security insights.



Seafloor Mapping

Measure shapes and depths of the ocean floor in poorly mapped areas globally in the most cost-effective and sustainable manner.



Limitless Power And Unprecedented Flexibility

Specifications:

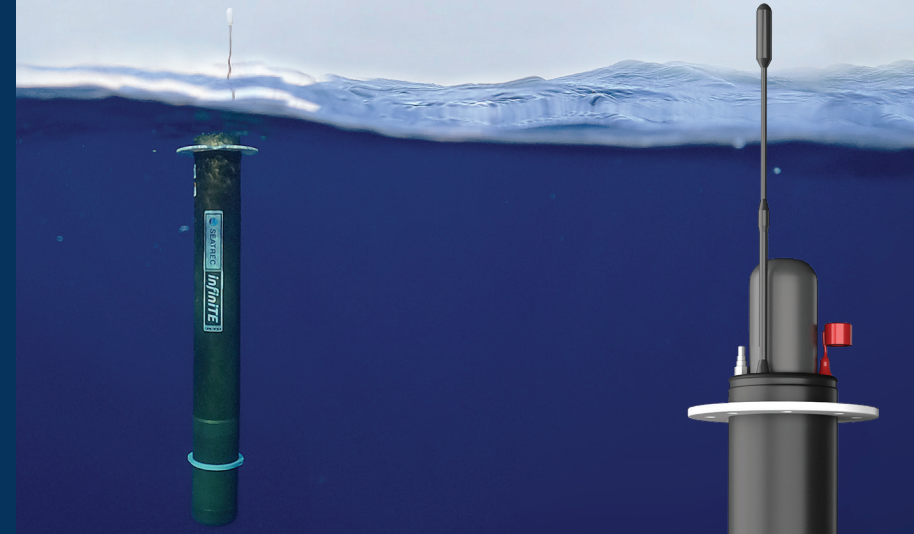
- Hull diameter: 8" (20.3 cm)
- Length: 74" (188 cm) [without antenna]
- Weight: 121 lbs (55 kg)
- Depth Rating: 1,000 meters
- Energy: >10 kJ (3 Wh) depending on temperature
- Mission Endurance: Energy no longer a limitation
- Sensors: CTD, Hydrophone, and Echosounder
- Satellite Communication: Iridium RUDICS
- Data Processing: Linux computer

Contact Us

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SEATREC



infiniTE™ Float

Thermal-Powered Subsea Drone

- Increased mission endurance
- Persistent monitoring
- Onboard data processing
- Real-time reporting
- No recovery required

seatrec.com

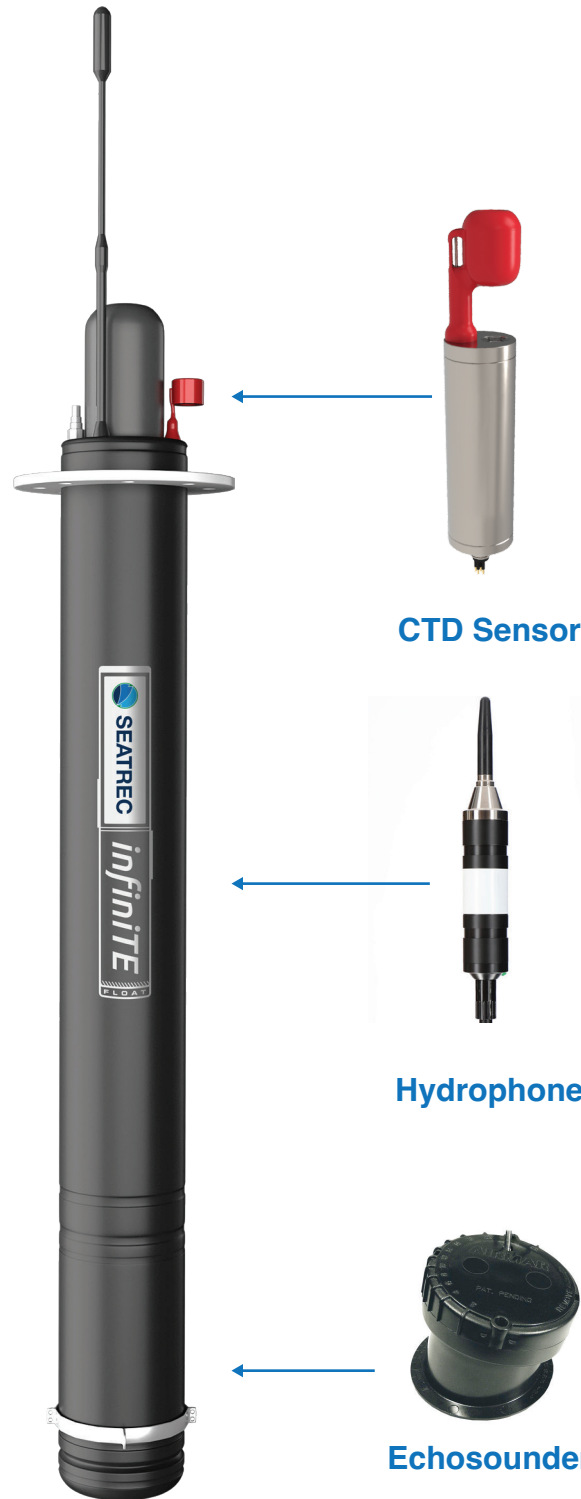




Scientists have long envisioned profiling floats capable of supporting a broader range of oceanographic research — from ocean vertical structure and soundscape monitoring to seafloor mapping. Seatrec makes that vision a reality with the *infiniTE™* Float — the first platform engineered for modular sensor integration, enabling applications that were previously limited by power constraints.

Legacy floats rely on finite battery reserves that restrict both the frequency of data collection and mission endurance as well as the types of sensors they can support. *infiniTE* overcomes these limitations with a patented system that harvests energy from temperature differences in the ocean, allowing reliable operation of high-power sensor payloads.

infiniTE Floats can profile up to four times per day — delivering 40 times more data than conventional systems. Built for endurance and adaptability, the platform enables long-term deployments without the need for recovery.

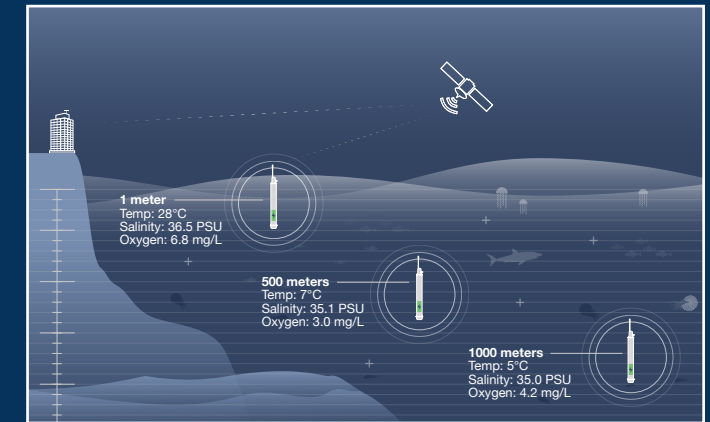


CTD Sensor

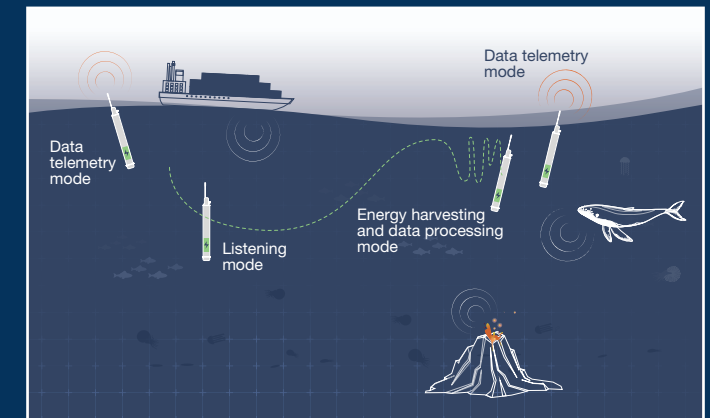
Hydrophone

Echosounder

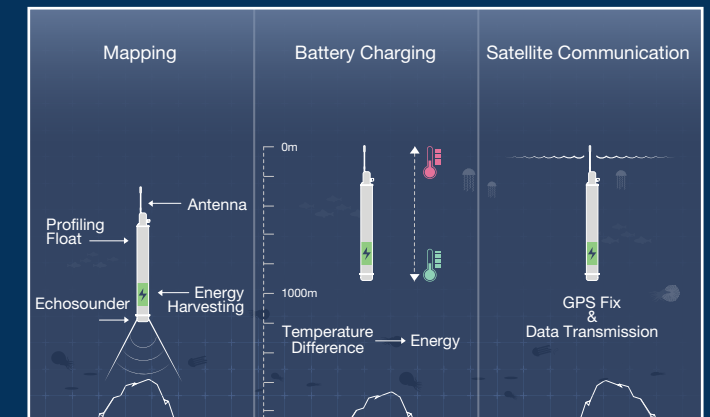
Applications



Ocean Vertical Structure



Soundscape Monitoring



Seafloor Mapping