

SUB-SEA RECORDER SYSTEM





DESCRIPTION

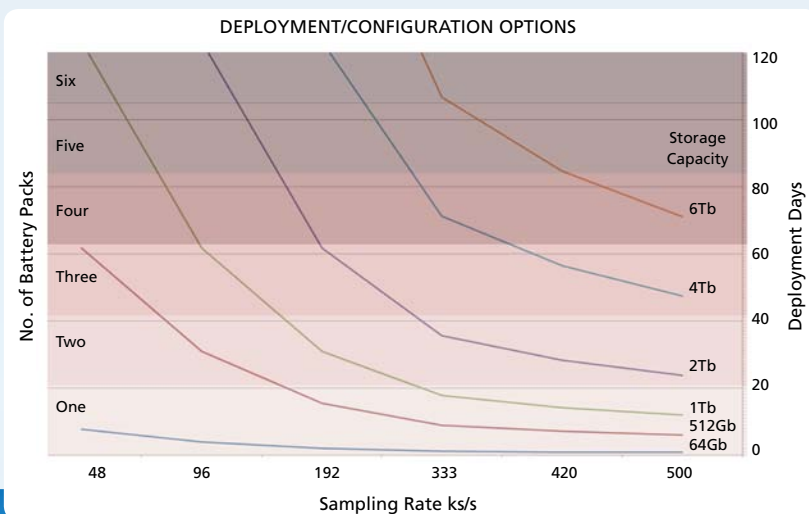
This digital sub-sea data recorder is for long term data acquisition at sea. There is no interference from surface or vessel noise. Seiche's system is highly configurable to suit project specifics.

Sampling rates can be varied up to 750 ks/s with a deployment duration of 365 days at continuous use. 6 TB of data can be accommodated. Programmable duty cycle to extend deployment if required. Variable gain stages and configurable Low Cut and High Cut filters are included. The recorders are designed with slight positive buoyancy ensuring correct deployment placement and ease of recovery utilising an acoustic release. In order to provide further security, data is stored onto the media in a striped format.

Once target requirements have been identified the recorder can be set up and configured. This is then attached, via an acoustic release (not included), to a seabed mooring. Upon survey completion the acoustic release is activated and the recorder can be recovered from the surface. Alternatively, the system can be suspended from a surface buoy.

APPLICATIONS

-  Long-term underwater sound recording
-  Baseline marine mammal monitoring
-  Ambient noise measurement
-  Sound source verification



ACOUSTIC
Low-cut filter settings – switchable 10/20/100/200/1000/2000 Hz
High-cut Anti-Alias – switchable 180/120/90/72 kHz
Gain settings: switchable, 0dB – 120dB in 6dB steps
Hydrophone: omni directional Ceramic sphere
Typical hydrophone sensitivity: -157dB re 1V/μPa (nominal)
RECORDING & STORAGE
Six 16-bit acoustic channels with independent sampling rates
Switchable sampling rate up to 760 ksp/s
Solid State, removable Flash Memory 512Gb – 6Tb
Deployment exceeding 1 year depending upon configuration.
ENVIRONMENTAL
Shallow Model: 500m
Deep Model: 2000m
Operating Temperature: -5°C to 65°C
Storage Temperature: -18°C to 80°C