QuietSea™
Marine mammal monitoring system
QuietSea™ is the new passive acoustic monitoring (PAM) system from Sercel designed to detect the presence of marine mammals during seismic operations.

Unlike other separate antenna PAM systems, QuietSea is seamlessly integrated within the Sercel Sentinel seismic streamer (Sentinel, Sentinel RD and Sentinel MS).

**Features & Benefits**

**INTEGRATED ARCHITECTURE**
Sensors within Sentinel® streamers  
Interfacing Seal 428 & SeaPro Nav

**OPTIMIZED PRODUCTIVITY**
No external devices to entangle streamer  
False alarm rate reduction

**PRECISE MONITORING**
Automated detection & localization algorithms  
Objective decision-making

COMPATIBILITY
- 3D vessel
- 2D vessel
- Source vessel

AUTOMATED LOCALIZATION

WIDE FREQUENCY RANGE
- Whistles, moans and clicks
- 10Hz to 180kHz

Dedicated antenna for source vessel  
Seismic streamer
Onboard equipments

Localization and Low frequency detection
- QuietSea software
- Interface to Seal 428 and SeaPro Nav
- Acquisition & data processing (Streamer and Auxiliary modules)
- Data logging & localization display

Streamer module

High frequency detection
- Interfaced with positioning transducer
- A/D conversion
- Vocalization detection (200Hz to 96kHz) and timestamping
- Sensor test
- 50 or 70mm diameter
- Up to 4 modules per streamer

Auxiliary module

High frequency detection
- To be mounted on the vessel hull, head buoy or impulsive source array
- A/D conversion
- Vocalization detection (200Hz to 180kHz) and timestamping
- Sensor test
- Up to 8 modules per system

Sentinel

Low frequency detection
- Both seismic data recording and mammal monitoring
- Vocalization detection (down to 10Hz)
- Up to 512 processed channels per spread
- Sensor test

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