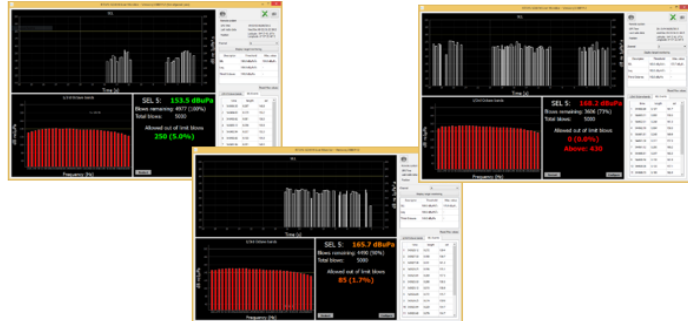


RUGGED REMOTE HYDROPHONE BUOY

Real-time underwater noise monitoring



Description

Made for an automated and intuitive operation, the RUBHY buoy can record underwater noise and simultaneously send and display real-time noise information such as SEL – Sound Exposure Level and SPL – Sound Pressure Level over a 10 km distance.

Especially adapted to offshore conditions, the RUBHY is an excellent solution for autonomous real-time noise surveying of port construction, pile driving operations and seismic surveys. Even if the RUBHY is robust, this buoy can be easily deployed and recovered from working boats, weighing less than 500 kg including mooring.

The recorder device is placed in the buoy tube and is easily removable, interchangeable and rechargeable.

The user interface is specifically adapted to an easy use and understanding of real-time noise information. Making of RUBHY a key decision that can also generate substantial cost savings in noise regulated offshore operations.

Applications

- Pile-driving
- Coastal marine construction
- Environmental monitoring
- Noise impact studies

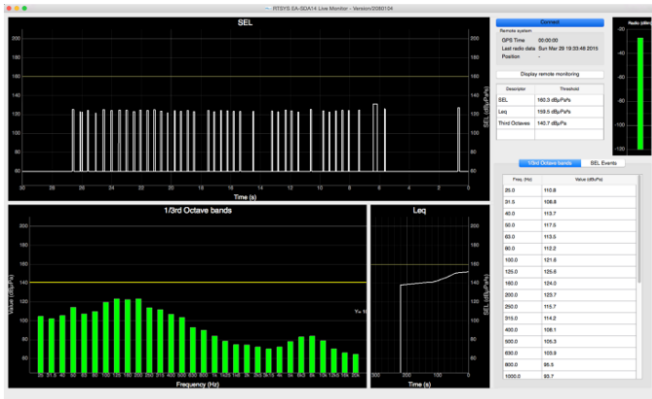
Options

- Up to 2 TB HDD memory extension
- Adapted moorings regarding deployment area

Characteristics Powered by SDA

- Radio link over 10 km
- Wi-Fi link: 700 m
- GPS
- Stabilized float 1.25 m diameter
- User-friendly intuitive embedded web interface

- Float dim: 1.25 m diameter
- Tube dim.: 19 cm diameter
- Total height: 227 cm
- Weight: 238 kg
- Storage: 128 GB SDC & 2 TB HDD
- Power: Rechargeable 1800 Wh
- Autonomy: > 20 days -Wi-Fi & VHF ON



RT-Live Monitor software

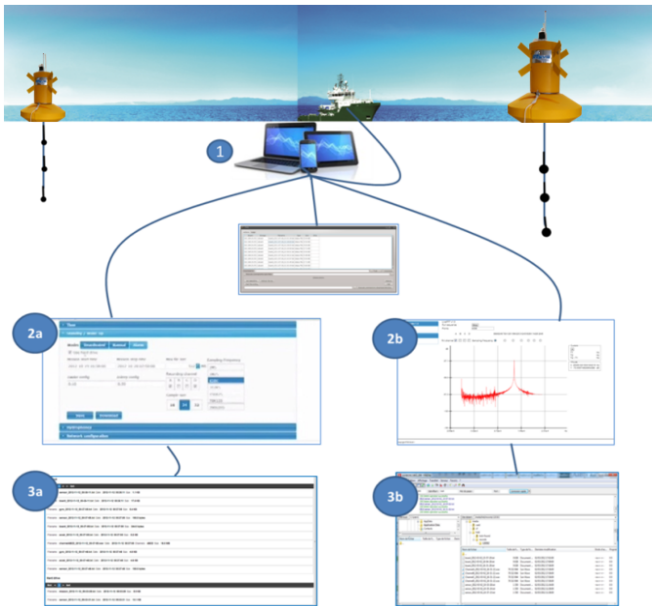
Software

Radio link: SEL/SPL calculation

The buoy streams the Sound Pressure Level (SPL), the Sound Exposure Level (SEL) and the 1/3rd octave band spectrum, every 5 seconds to the dedicated software.

The software provides configurable alert thresholds according to the current standards and regulations.

The processed in-stream data are stored locally for analysis on the receiving computer. The raw .wav files remain stored on the buoy and can be downloaded either during deployment with the Wi-Fi link or when the removable recorder is recovered.



Embedded web interface

Wi-Fi: Data and system management

The web interface embedded in the RUBHY system is accessed at all time with a remote control. The manager software of an additional tool that allows for more real-time functions:

- buoy(s) access
- synchronous time set
- multiple buoys synchronization
- recording status control
- .wav data sample collection while recording

The raw data are collected in 24 bits and stored in the standard .wav format that is directly processed for further analysis and reporting.

Contact

- www.rtsys.eu
- sales@rtsys.fr
- +33 (0)297 898 580

25, rue Michel Marion 56850 Caudan – France



RTSYS



@r_tsys



RTSYS

RTsys Activities

- Underwater acoustics
- Embedded electronics
- Underwater drones
- Sonar solutions
- Systems integration
- Customized R&D