

## SYLENCE-LP

Compact – Broadband



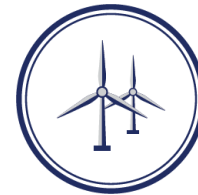
Noise impact studies



Environmental Monitoring



Shipping / Construction



Marine renewable energies

### Description

**SYLENCE-LP** is a compact embedded recorder able to acquire a broadband hydrophone.

The acoustic recorder accepts both passive and pre-amplified active hydrophone. Its broadband analogue input allows over 250 kHz bandwidth with a dynamic range greater than 100 dB guaranteeing efficient signal to noise ratio.

The embedded digital signal processor allows high speed acquisition, filtering and storage.

**SYLENCE-LP** works autonomously and data is stored on up to 4 SD Cards.

Its low power consumption allows over a period of 6 consecutive months of recording on standard alkaline D cells.

**SYLENCE-LP** can be programmed with a mission schedule including date of beginning, sleep and record periods in order to improve battery life.

Light and compact, the **SYLENCE-LP** can be easily deployed by a single person.

### Advantages

- **Passive or pre-amplified hydrophone recording channel**
- **Broadband high data quality (up to 24 bits & 512kS/s)**
- **Low Power (continuous recording up to 6 months)**
- **Use standard D cells**
- **Use standard (lossless and uncompressed) .WAV files as storage.**

### Payloads & Options

- **Interchangeable hydrophone**
- **Up to 2 TB data storage on SD Cards**
- **Rechargeable batteries**

### Supplied

- **Power: 15 Alkaline D cells**
- **Storage: 1 x 128 GB to 4 x 512 GB SD Cards**

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### Recording channel

Channel is electronically calibrated.  
Gains are software configurable between 0 dB and +15 dB. High pass filters are also software configurable between 3 Hz and 300 Hz.

### Broadband high data quality

4 recording frequencies going from 64 kS/s to 512 kS/s are selectable. The SYLENCE-LP can thus monitor noises and a frequency bandwidth going from 3 Hz to more than 250 kHz guaranteeing great dynamic and Signal to Noise Ratio (> 100 dB).

This high SNR allows recording to strong and low level noise simultaneously.

Raw data is collected in 24 bits and stored in .wav standard format; directly compatible with processing software such as ©PAMguard, R, Python and ©Matlab.

### Characteristics

- Low power: up to 6 months of recording with 15 Alkaline D cells
- Passive or active hydrophone input
- Broadband: from 3 Hz to over 250 kHz
- Wide dynamic: true 24 bits Delta-Sigma recording
- Software selectable input gain: 0 or 15 dB
- Software selectable high pass filter: 3 Hz or 300 Hz

### Dimensions

- Diameter: 90 mm
- Length: 430 mm
- Weight: 4.5 kg in air & 1.4 kg in water
- Standard depth: 250 m (900 m optional)