

SYLENCE-LP

Compact - Broadband



Marine Biology



Ambient noise



Marine Renewable energies



Shipping / Construction

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 up to 110 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 & Option

- **Low power: up to 6 months of recording with 15 Alkaline D cells**
- **Passive or active hydrophones inputs**
- **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 or 300 Hz**

Supplied

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



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 (up to 110 dB).

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

v.004

Dimensions

- Diameter: 90 mm
- Length: 430 mm
- Weight: 4.5 kg in air & 1.4 kg in water
- Standard depth: 250 m (1000 m optional)

Supplied hardware

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