

LOW-POWER HYDROPHONE RECORDER

Autonomous – Compact – Easy to use



Description

SYLence recorder is a turnkey low-power autonomous hydrophone recorder.

SYLence recorder is equipped with a single hydrophone sensor and a low power recording system (600 mW).

SYLence recorder dynamic allows monitoring simultaneously all types of sounds from mammals to very high level noises.

SYLence recorder is very low-power and can record up to 45 days of data with only 18 D Cell batteries. Additional battery packs, hard-drive storage capacity and mission schedule mode can improve deployment lengths.

Configuration, monitoring and data recovery are facilitated through intuitive web browser interface.

Applications

- Ambient noise
- Environmental monitoring
- Marine renewable energies
- Cetacean research
- Seismic / Shipping / Construction

Options

- Temperature – Pressure

Key Characteristics

- Versatile
- Low power & broadband
- High-quality data
- Easy to use
- Easy to recover

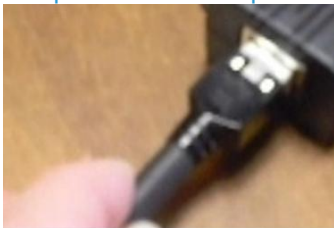
Dim.: 55 cm long,
12 cm diameter
Weight: 7 kg in air, 2 kg in water
Depth: 200 meters
Power: 18 Alkaline or Li-SoCl₂ D Cells
Storage: 128 GB SD Card

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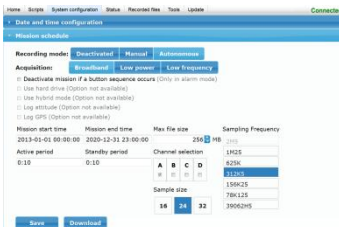
Connect SYLence recorder to Ethernet cable.



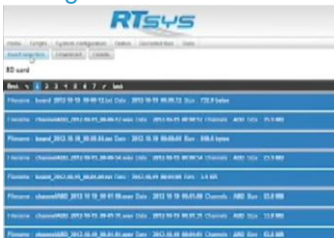
Connect cable to any computer Ethernet input.



Then program mission via Web Embedded Interface...



and download data recorded through Ethernet connection



- **Versatile**

Hydrophone is easily plugged in and out from the recorder. SYLence recorder can be equipped with additional options:

- Temperature & pressure sensor
- Hydrophone cable length
- Broadband hydrophone

- **Low power and broadband**

SYLence power consumption is only 600 mW in recording mode and less than 3 mW in sleep mode.

Selectable recording frequencies proposed are 1 kHz, 2 kHz, 4 kHz, 8 kHz, 16 kHz, 32 kHz, 48 kHz, 96 kHz and 192 kHz. SYLence can record sounds up to 96 kHz bandwidth continuously in 24 bits.

- **High quality of data**

Data is digitized with high acquisition performance in 16 or 24 bits in .wav standard format, directly compatible with processing programs such as ©Matlab, ©LabVIEW and ©PAMguard.

High dynamic allow monitoring wide range of underwater noises.

- **Easy to use – Easy to recover**

Light and compact, SYLence can be easily deployed by a single person.

The web browser interface gives intuitive access to configuration of the recorder and to the recorded files.

To recover data it is not necessary to open the recorder. A simple cable connection from the recorder to Ethernet input of any computer and a web browser are sufficient to download data at over 7 MB per second.

Contact

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RTSYS activities

- Marine acoustics
- Embedded electronics
- Marine robotics
- Systems integration
- Customized R&D

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