



Product Description:

The AcSense-Mini-Soundscape is a single- or dual-channel hydrophone recorder for use in underwater acoustic data collection. Based on the AcSense-Digital board, this system comes with one or two endcap-integrated hydrophones for collection of acoustic data sampled at up to 100 kHz with 12 bit resolution. Standard features include 1 or 2 HTI-96-MIN broadband hydrophones, internal IMU, GPS for surface fix, and external pressure/temperature sensor. The AcSense-Mini-Soundscape runs off of a standard 9V battery, and on power-on begins logging all sensors to an SD card. At only 2.25 inches diameter and 7.5 inches in length, the AcSense-Mini-Soundscape is ideal for understanding the sounds of waters near you!

Property	Standard Configuration
Depth Rating	200 m, acrylic housing
Power	9V battery
Battery Life	Lithium Primary: 6 hours Alkaline: 3 hours
Temperature/ Pressure	BAR30 or BAR100 sensors (BlueRobotics)
Hydrophone(s)	1 or 2 HTI-96-MIN w preamp, -167 dB/uPa nominal, max sample rate 100 kHz.
GPS and RTC	SparkFun GPS Breakout - XA1110 (Qwiic)
Internal IMU	3-axis accelerometer, 3-axis gyro
Dimensions	Diameter: 2.25" Length: 7.5" including hydrophones.
Data Logging	Logging to SD Card on startup using default config or a configuration set in a file. Flashing blue LED indicates the system is recording.
Data Export	Open-source python code for converting logged binary files to .csv formats with dashboard plotter.

(Housing, power, sensor, and software customization available.)