

# PAM-Go System



The PAM-Go is a highly portable solution for monitoring and recording underwater sound. The system has been designed to enable the recordist to operate from for example, small open boats, a harbourside or jetty, or the exposed deck of a larger vessel.

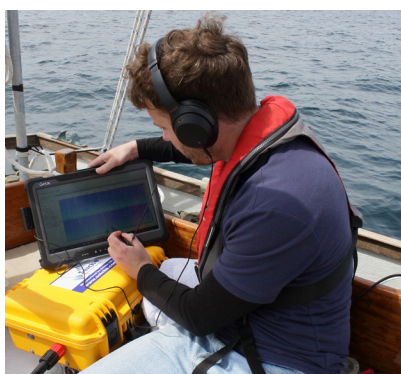
## Specification

Hydrophone Elements: 2

System Frequency Response: 10-160,000 Hz (-3 dB) with standard

Power Requirement: 12V DC

Weight: 10kg (case, tablet and hydrophone cable)



The PAM-Go electronics are housed in a robust case (IP67). A WiFi network is created to link the PAM-Go to a ruggedised tablet or laptop computer. Underwater sound is displayed and recordings made on the computer using the open-source software 'PAMGuard'. Hydrophone audio is streamed via cabled or Bluetooth headphones.

The PAM-Go can be paired with standard or bespoke Seiche hydrophone cables. Up to four hydrophone channels can be acquired and digitised at a sampling rate of up to 500 kHz per channel (16 bit). 2 hydrophone is standard, 3 and 4 hydrophone variants, available on request, subject to lead times. The standard hydrophone cable includes two, identical broadband elements of nominal sensitivity 516 dB re: 1 V/μPa and a flat frequency response from 10-160,000 Hz. The elements are mounted on a 27-m cable and spaced 0.5 m apart.

The PAM-Go battery pack gives an expected runtime of approximately 20 hours. A charger and charging lead are provided with the system.

### In summary, the Seiche PAM-Go system consists of:

- PAM-Go electronics in a robust, IP67-rated case
- A standard or bespoke hydrophone cable
- A ruggedised laptop or tablet (such as the Getac A140 G2, with built-in GPS) running PAMGuard software
- Bluetooth or wired headphones. Wired included as standard.

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## Case Study

### Key Features

- A portable sound recorder, with electronics housed within a robust Pelican Storm IM2200 case, with all external connectors rated to IP67.
- Case external dimensions L460 x W320 x D170 mm.
- Weight approximately 10 kg.
- The standard PAM-Go system is supplied with two broadband hydrophones on a 27 m cable, but alternative configurations are available, of 1-4 hydrophones and bespoke sensitivity and frequency response.
- End to end calibration available on request, subject to lead times.
- An internal National Instruments DAQ enabling acquisition of data from up to 4 ch, at 500 kHz sample rate per channel, with 16-bit sample size.
- A WiFi network is used to connect the National Instruments DAQ to a ruggedised laptop or tablet computer running PAMGuard software, so that data is acquired with the PAM-Go case safely closed.
- Audio monitoring from the laptop or tablet via cabled or Bluetooth headphones.
- The PAM-Go's internal 12 V battery pack provides approximately 20 h continuous runtime.
- External battery charging port and battery life indicator.

