



icLISTEN HF

A new way to think about subsea listening

The icListen Smart Hydrophone presents a new paradigm in subsea listening, with a compact, all-in-one hydrophone instrument. Use it as a digital hydrophone, acoustic data logger, or both at once. Get instantly calibrated waveforms, spectral or event data - in a standard format.

The world's most sensitive broadband digital hydrophone processes data while it's collected, reducing data handling and storage. Collect hard to detect data accurately and cost effectively.

Applications

- *Environmental Monitoring*
- *Ocean Observation*
- *Offshore Wind Farms*
- *Marine Tidal Current Monitoring*
- *Sea Animal Research*

Detect real-time events with confidence using icListen's powerful processor to compute spectral or calibrated WAV file data. Transmit waveform or processed results in real-time. Record waveform data as well.

Deploy down to 3500m.

This Compact device is small enough to be carried in one hand. icListen is easy for divers to handle and operators to carry on a ship navigating the high seas. Use the lanyard loop to ensure it stays close.

icListen is easy to connect. Use the standard Ethernet interface, or optional serial interface to plug directly into the host computer to retrieve data. No special software is needed to retrieve stored waveform data from the instrument.



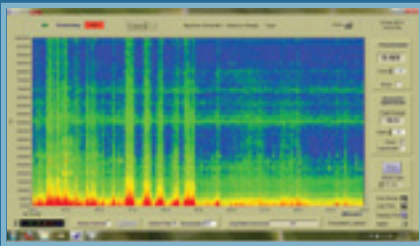
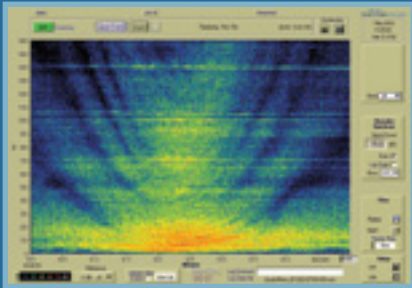
24-bit Broadband
Smart Hydrophone
10 Hz - 200 kHz

Options

Depth: 200m/3500m
Link: Ethernet/RS232/485/422
Case: Engineered plastic/Titanium

What makes icListen different?

The instrument replaces preamp, filters, converters and data link units with a compact unit that gives trusted sound data in real units.

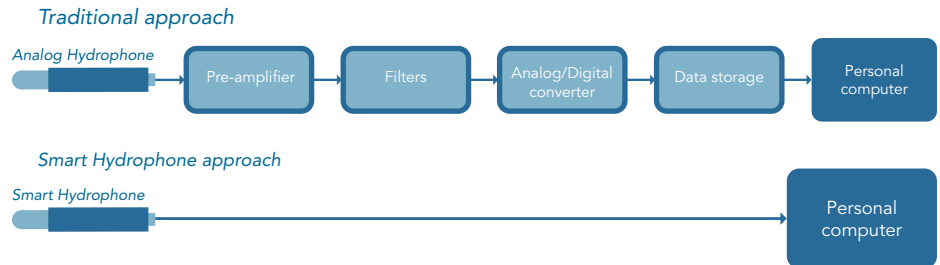


LUCY Software

Display real time waveforms or waterfall displays using our PC software LUCY. Lucy is used to setup and test icListen.



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The preamplifier and filter are carefully matched to the sensing element to give the best balance of dynamic range, noise performance and low distortion over the full bandwidth of the instrument.

The Smart Hydrophone processes data before it is transmitted using spectral analysis, preconfigured by the operator during setup.

Measure temperature and humidity too. Humidity is used to ensure seal integrity.

The icListen is easy to deploy and can be tethered for real-time data collection (processed or waveform) or stand-alone as a data logger.

Owning the icListen is cost-effective because it is simpler, easier to deploy, low maintenance and durable.

The icListen has a unique feature for tethered (or radio linked) operation. The instrument processes the data before transmitting it, permitting high bandwidth data to be transmitted over a 'slow' link.

For example, a 200kHz signal requires about 15 megabits/sec to transmit waveform data continuously. Processing to spectral data, with 4 block updates/sec requires 20 kilobits/sec, easily possible with a radio or GPRS link.

Each product comes with a tough field case, test cable and power adapter.

