



# icLISTEN HF

A new way to think about subsea listening

10 Hz to 200 kHz

The icListen Smart Hydrophone is 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 one standard format.

The world's most sensitive broadband digital hydrophone capable of processing data while collecting in real-time, reducing data handling and storage. Collect hard to detect data accurately and cost effectively.

## Applications

- Environmental Monitoring
- Ocean Observatory
- Offshore Energy Operations
- Sea Mammal Monitoring
- Ocean Noise Measurement
- Pipeline Leak Detection

- **Detect** real-time events with confidence using Epoch Mode. Epoch events determine when spectral or WAV file data is stored in memory, or transmitted in real-time.
- **Use** a browser to view settings, date and change instrument settings.
- **Synchronize** multiple hydrophones to create a high quality multi-channel instrument avoiding the problem of signal cross-talk
- **Simplifies** data processing and project planning
- **Wide** dynamic range eliminates gain settings
- **Calibrated** hydrophone can be used as an acoustic reference
- **Easy** to connect through a network, radio or direct to a PC
- **Uplink** over slow radio channels by using spectral data
- **Compact** and can be carried in one hand
- **Deploy** down to 3500m



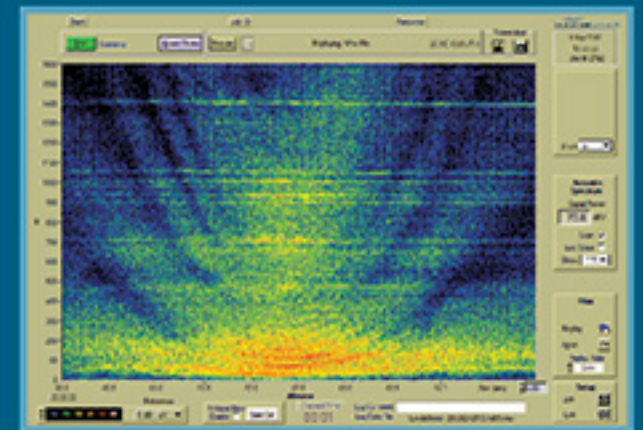
24-bit Smart Hydrophone

### Options

Depth: 200m/3500m

Link: Ethernet/Serial

Case: Engineered plastic/Titanium



## LUCY Software

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





**Dimensions**

4.5cm (dia) x 22cm (length)

**Bandwidth**

10 Hz to 200 kHz

**Power**

12 - 24 Vdc input  
2 W with Ethernet link  
125mW autonomous mode

**Sample Rate (S/sec)**

Maximum 512,000

**Synchronization**

Accuracy 0.25 usec  
Lock Range 1.0 Hz +/- 10ppm  
GPS PPS  
External IEEE 1588 Module Optional

**Case Material**

Engineered Plastic - 200m  
Titanium - 3500m

**Acquire Modes**

Record: Waveform / FFT / Epoch

**Internal Data Storage**

32 GB

**Dynamic Range**

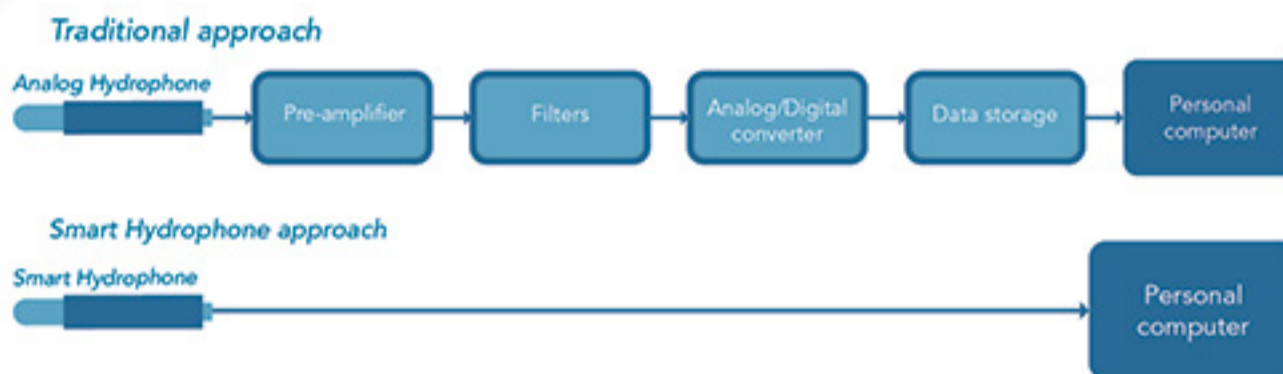
120 dB



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# What makes icListen different?

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



**Hydrophone Sensing Element;** ultra low noise and wide dynamic range for high signal quality.

**Intelligent Digital Hydrophone** processes data before it is transmitted using spectral analysis and correlation models, preconfigured for each application.

