



icLISTEN LF

A new way to think about subsea listening

1.0 to 1600 Hz

A complete all-in-one digital hydrophone instrument. Plug it into your computer and get instant calibrated waveforms, spectral, or event data – in a standard format.

Reliable data, best in class signal performance lets you acquire hard to detect data accurately and cost effectively.

Applications

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

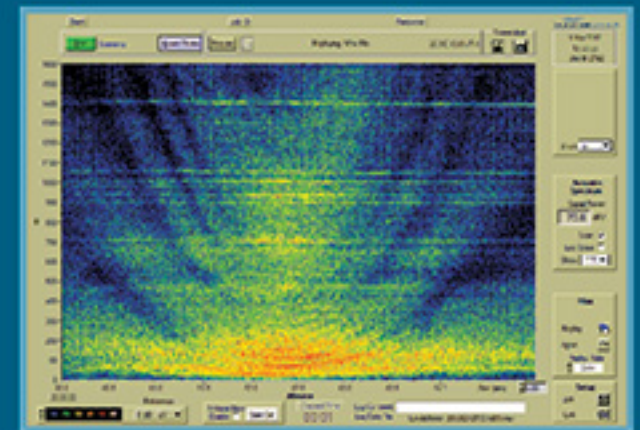
- **Detect** real-time events with confidence using Epoch Mode. Epoch events determine when spectral or WAV file data is stored in memory, or transmitted in real-time.
- **Synchronize** multiple hydrophones to create a high quality multi-channel instrument avoiding the problem of signal cross-talk
- **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

1.0 to 1600 Hz

Power

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

Sample Rate (S/sec)

Maximum 4000

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

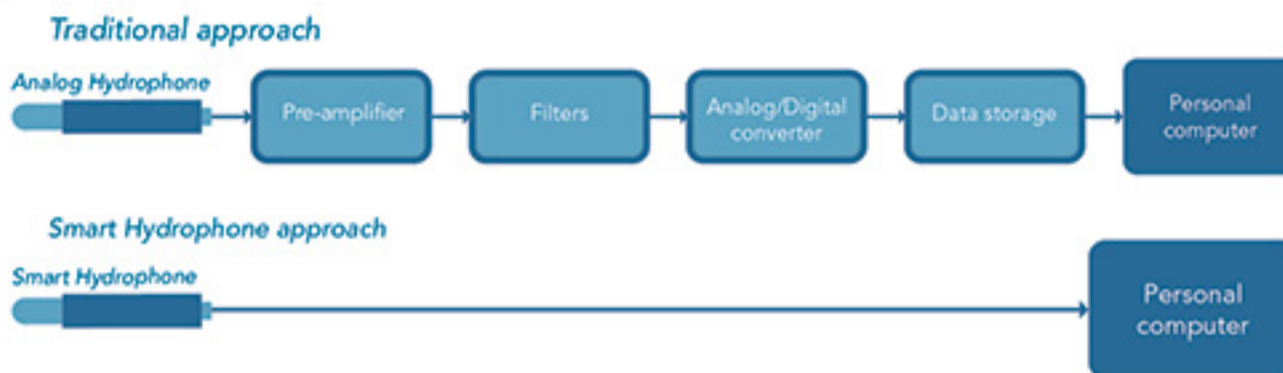
144 dB



Hill House
11 Lornevale Road, Great Village
Nova Scotia, Canada B0M 1L0
+ 1 902 655 3000

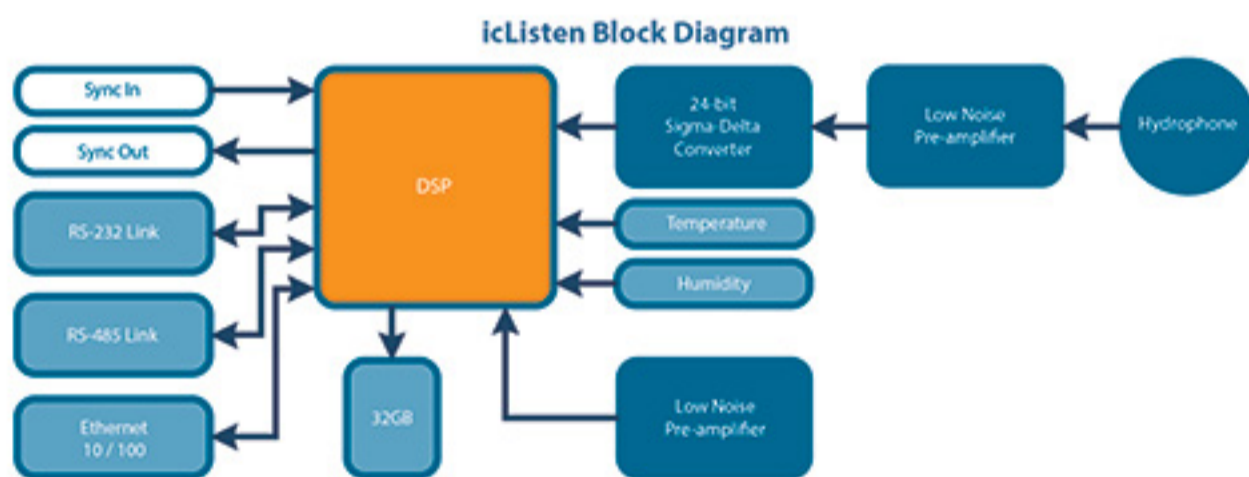
What makes icListen different?

icListen LF 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.



Instrument Resolution and Sensitivity

