



# icLISTEN LF

A new way to think about subsea listening

A complete all-in-one hydrophone instrument. No additional hardware, software, or technical expertise required. 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*

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

**Deploy** down to 3500m; icListen's small self-contained unit needs no additional hardware to operate.

**Uplink** over slow radio channels, long cable runs, or icListen's Ethernet link.

**Compact** and can be carried in one hand. Easy for divers to handle and the lanyard loop keeps it close. Mount it on an ROV, buoy, or over the side.

**Versatile**; use it tethered or power it from a battery.

**Easy** to connect, no boxes or interfaces required.

**Internal Data Storage**: up to 32GB

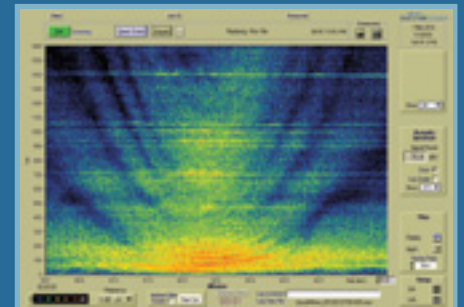
**Cost Effective**; guaranteed to be simpler, easier to deploy, lower maintenance, and more durable



24-bit Smart Hydrophone  
0.1 - 1600 Hz

### Options

Depth: 200m/3500m  
Link: Ethernet/RS-232/USB  
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**

0.1 to 1600 Hz nominal  
0.01 Hz to 100 Hz minimum

**Power**

12 - 24 Vdc input  
500mW with ethernet link  
125mW autonomous mode

**Sample Rate (S/sec)**

Maximum 4000

**Guest Sensor**

0 to 10 V input  
Maximum sample rate 10 Hz  
Differential / single ended

**Synchronization**

Accuracy 2 usec  
Ethernet IEEE 1588  
GPS PPS

**Case Material**

Engineered Plastic - 200m  
Titanium - 3500m

**Acquire Modes**

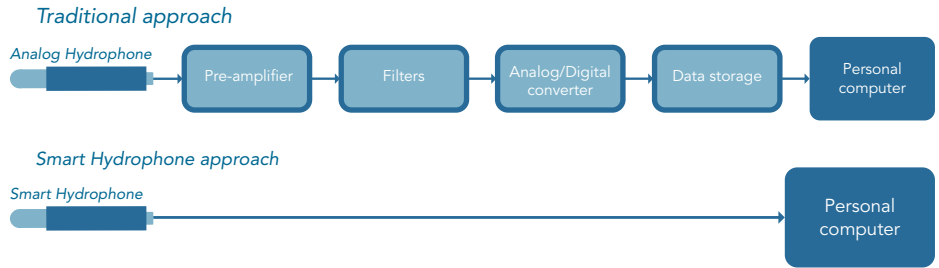
Record: Waveform / FFT / Epoch



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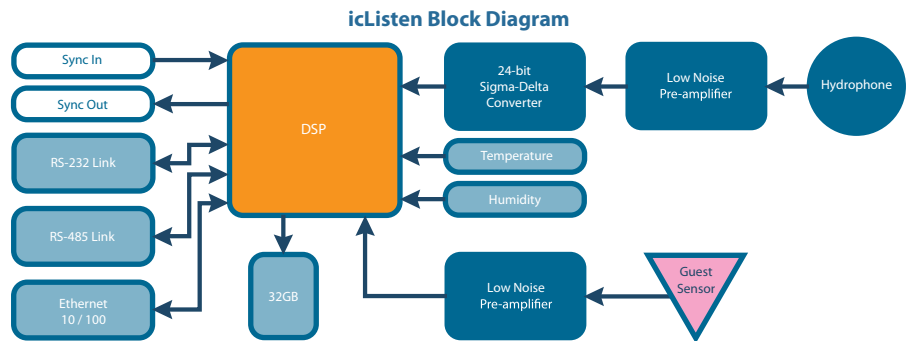
# What makes icListen different?

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



**Trusted 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**

