



# icListen HF

10 Hz to 200 kHz

## Accurate. Simple. Reliable.

The icListen Smart Digital Hydrophones are the industry's standard in digital marine acoustics. This compact, all-in-one instrument can process, stream, and record acoustic data, all in real-time. The icListen is fully calibrated, with rechargeable batteries, large memory, and internal processing of spectrum data and a built-in event detector.

Use the icListen as a digital hydrophone, acoustic recorder, or both simultaneously. Collect ocean sound data accurately, simply and reliably. Improve decision making and project success by choosing the icListen as part of your next deployment.



## Compact and fast. Record, listen and analyze ocean data anywhere.



**Process** data at the source with edge processing



**Detect** events and make decisions in real-time using Epoch Mode



**Operate** and adjust the settings on your icListen through a web browser



**Stream** and record real-time, spectral or WAV data directly to your laptop, tablet or smartphone



**Synchronize** multiple hydrophones for simplified, high-quality multi-channel array



**Maximize** sensitivity with our ultra low self noise and wide dynamic range

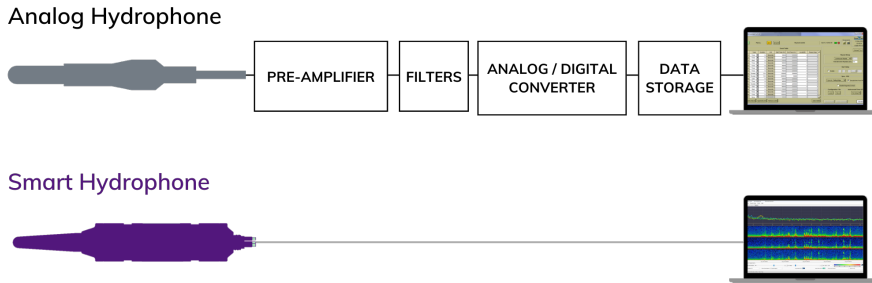
## Lucy II Software

Lucy II software allows you to view, record, and analyze multiple hydrophone data right to your laptop or phone.



# What makes the icListen different?

The icListen eliminates the need for pre-amp, filters, converters, and data-link with a self-contained, compact unit that streams or records acoustic data in real-time.



## Hydrophone Sensing Element:

Ultra low noise and wide dynamic range for high quality data and long term stability. Choose the element that's right for you.



**Ocean Sonics ALTA Sensor:**  
Optimal combination of sensitivity, bandwidth and performance



**Teledyne Reson Sensor:**  
Industry standard and high performance sensor

## Applications

- Marine Mammal Monitoring
- Earthquake and Tsunamis
- Pile Driving and Marine Construction
- Passive Acoustic Monitoring
- Shipping Noise
- Pipeline Leak-Detection

**Frequency:**  
10 Hz to 200 kHz

**Sensitivity:**  
ALTA: -173 dB re V/ $\mu$ Pa  
RESON: -177 dB re V/ $\mu$ Pa

**Peak SPL:**  
ALTA: 180 dB re  $\mu$ Pa  
RESON: 184 dB re  $\mu$ Pa

**Sample Rate:**  
1 - 512 kS/sec

**Depth Rating:**  
ALTA: 900 m, 3500 m  
RESON: 900 m

**Dynamic Range:**  
147 dB

**Autonomous Battery Life:**  
8 Hr

**Resolution:**  
24 bits

**Communication Interface:**  
Ethernet

**Acquire Modes:**  
Record: Waveform/FFT/  
Event Capture

**Maximum Internal Data Storage:**  
0.5 TB

**Software:**  
Lucy II

**Overall Length:**  
ALTA: 304 mm  
RESON: 318 mm