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

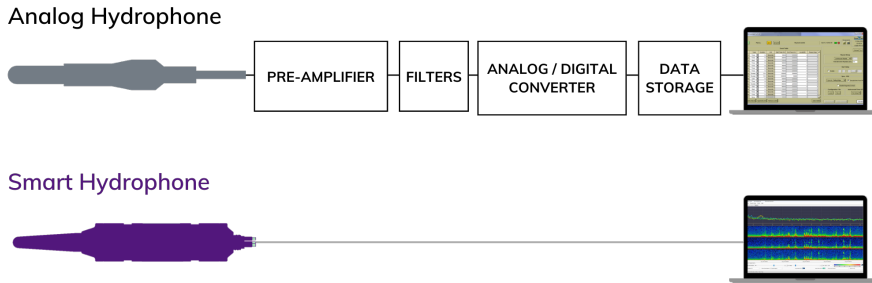**Maximize** sensitivity with our ultra low self noise and wide dynamic range

Lucy II Software

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

OCEAN SONICS

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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.

Analog Hydrophone

PRE-AMPLIFIER → FILTERS → ANALOG / DIGITAL CONVERTER → DATA STORAGE

Smart Hydrophone

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/μPa
RESON: -177 dB re V/μPa

Peak SPL:
ALTA: 180 dB re μPa
RESON: 184 dB re μPa

Sample Rate:
1 - 512 kS/sec

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

Dynamic Range:
147 dB

Autonomous Battery Life:
8 Hr

Resoution:
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
RESON: 318