



# icListen R-Type

Digital Smart Hydrophone

The icListen Smart Hydrophone is a compact, all-in-one instrument that logs calibrated waveform, spectral or event data in standard formats and can stream real-time data. Use the icListen as a digital hydrophone, acoustic data recorder, or both at once.

The icListen R-Type uses Reson sensor technology, giving those users a quality digital hydrophone alternative. This 24-bit instrument includes rechargeable batteries and a large memory. Configure the icListen to log events or transmit in real-time.

- Detect real-time events using Epoch Mode
- Operate, test and setup the icListen using a web browser
- Synchronize multiple hydrophones for a high quality crosstalk free multi-channel array
- Simplify data processing and project planning
- Arrays can be any size

- Wide dynamic range eliminates gain settings
- Easy to connect through a network, over a radio, or cabled to a PC
- Compact and self-contained; carry in one hand



Broadband  
10 Hz – 200 kHz  
Frequency

## 24-bit Smart Hydrophone

- Quiet
- Calibrated
- Low Power
- Easy to Deploy
- High Value Rich Data

## Applications

- Environmental Monitoring
- Marine Renewable Energy
- Pipeline Leak Detection
- Ocean Observatories
- Marine Mammal Monitoring
- Noise Measurement
- Acoustic Array

OceanSonics.com

## Bandwidth

HF: 10 Hz to 200 kHz

## Sample Rate (S/sec)

1,000 (Min)

512,000 (Max)

## Battery Life (Internal)

10 hours (Rechargeable)

## Interface

Ethernet or Serial

## Power

18 - 36 Vdc input

12 V option available

2 W with Ethernet link

## Synchronization

Accuracy 0.25 usec

Lock Range 1.0 Hz +/- 8ppm

GPS PPS

External IEEE 1588 Module

## Acquire Modes

Waveform / FFT / Epoch

## Maximum Internal Data Storage

128 GB

## Sensitivity

-176 dBV re.  $\mu$ Pa

## Case Material and Depth

Engineered Plastic and

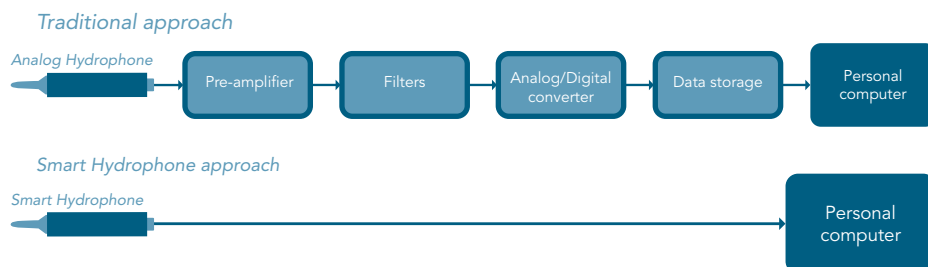
Titanium – 900 m



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# What makes icListen different?

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



## Accessories



### Ethernet Extender

Allows users to extend the ethernet standard 100m up to 1600m with full data throughput. Available in two depths, 200m and 6000m.



### Batteries

Battery Pack allows users to extend the icListen battery life for 30 or 90 days.



### Acoustic Hub

The HUB connects multiple hydrophones, synchronizing and combining channels into a single data stream. Allows users to create large arrays, process data, and localize and classify sound sources.

